

**TESTIMONY FROM NYCHA VICE PRESIDENT FOR RECOVERY & RESILIENCE JOY
SINDERBRAND
SANDY RECOVERY AND RESILIENCY PROJECTS IN NYCHA DEVELOPMENTS
COMMITTEE ON PUBLIC HOUSING WITH THE COMMITTEE ON RECOVERY & RESILIENCE
TUESDAY, FEBRUARY 28, 2017 – 1:00 PM
250 BROADWAY, 16TH FLOOR COMMITTEE ROOM, NEW YORK, NY**

Chairs Ritchie Torres and Mark Treyger, members of the Committees on Public Housing and Recovery and Resilience, and other distinguished members of the City Council: good afternoon. I am Joy Sinderbrand, Vice President of NYCHA's Office of Recovery and Resilience. Joining me today is Deborah Goddard, Executive Vice President for Capital Projects.

Thank you for this opportunity to update the Council on our work to rebuild stronger and more resilient than ever from the devastating impacts of Superstorm Sandy. We are repairing and fortifying a total of 219 buildings, home to 60,000 residents, demonstrating what can be achieved when government and partners work together to overcome a historic catastrophe. The size and scope of our efforts are unprecedented – with the largest grant ever awarded by FEMA, of \$3 billion, we are reimagining what our buildings look like and how they operate, improving residents' quality of life and protecting our developments from weather emergencies for generations to come. As we move forward with large-scale, multi-hundred-million-dollar projects, we continue to engage residents in the process and connect them to vital economic opportunities.

Where We Are Today: Shovels in the Ground

There is a tremendous amount of work underway – shovels are in the ground all across the City. To date, NYCHA has spent \$490 million and hired 164 residents for the recovery work. In the past year, major construction has begun at seven developments to repair 43 buildings, projects totaling more than \$536 million and benefitting over 7,400 residents. By the end of the year, we expect to begin major construction at every Sandy-impacted development.

This isn't run-of-the-mill repair work – and it wouldn't be possible if we had not fought so hard for every dollar possible from FEMA. We are replacing roofs and vital infrastructure, putting in new electrical systems and boilers, installing standby generators so residents have backup power, flood-proofing our buildings, completely renovating hundreds of damaged first-floor apartments, installing exterior safety lighting, and updating playgrounds, common areas, and community facilities.

Construction work kicked off in 2015, with the initial repair and recovery work we completed at 23 developments, replacing electrical wires and abating asbestos – the work that must be done before major construction can begin. Today, in addition to the major construction in progress at 43 buildings at seven developments, the work of advertising and awarding contracts and securing permits is underway for 15 developments. That includes our largest and most complex effort, Red Hook East and West, a \$440 million project where roof replacement is currently out to bid.

Rebuilding Better, Stronger, Smarter – For Today and the Future

Our Sandy recovery program is driven by dedication to the community at every turn – we want every dollar to make the greatest impact. Thanks to our negotiations with FEMA and support from partners like Senator Schumer, we were able to nearly double the size of the grant we received – from \$1.8 billion to \$3 billion. NYCHA's developments have not seen investment of this magnitude since their inception. With this funding, we are not only repairing the damage from Sandy but are also investing in measures that will safeguard buildings from future storms and improve residents' quality of life. For instance, we are not simply replacing damaged boilers, but are now housing the new, energy-efficient boilers in new, elevated buildings to protect them from flooding – a significant improvement that will go a long way in preventing interruption of heat and hot water service to residents, in concert with other innovations, such as flood

barriers and site restoration to mitigate flooding. The standby generators that will provide residents with backup power run on natural gas, which is cleaner than diesel fuel. And we're strengthening community centers as we repair their damage. For example, at Surfside Gardens, we're outfitting the community center with flood-proofing measures and backup power while rehabilitating the kitchen, walls, ceilings, and doors. We expect to complete this work by this fall. We're also flood-proofing and installing backup power at Ocean Bay Apartments/Oceanside's community center while replacing the damaged floors, walls, ceilings, and light fixtures.

We are guided by our *NextGeneration NYCHA* vision of safe, clean, and connected communities for New Yorkers. That means preserving and improving our buildings after the disaster, instead of abandoning them, which has been the case in other cities, such as New Orleans and Galveston, Texas. In addition, NYCHA is using the lessons learned from the Sandy recovery program to create guidelines for resiliency measures across our portfolio.

Partnering with Residents and the Community

Last year, the *Red Hook Star-Review* newspaper described a meeting with residents to discuss Sandy recovery plans at Red Hook Houses as "the best NYCHA meeting ever!" The article described the "real improvements" slated for the development, including ground-floor retail and renovated entrances and exterior lighting, which incorporated feedback and suggestions from residents at previous meetings. More recently, News 12 Brooklyn covered a workshop we held at Red Hook Houses in partnership with the non-profit KaBOOM!, so youth and adults alike could provide input on the redesign of the playgrounds there.

We believe that the public, advocates, elected officials, and, most importantly, residents must be involved in the process of rebuilding after Sandy. Since 2014, we've participated in more than 1,500 community events and meetings, resident association meetings, development family days, job fairs, and design briefings

with NYCHA residents. Councilmembers Treyger and Menchaca, you've stood with us at many of these events, and we're so thankful for your support. We've also made nearly 60,000 phone calls and posted over 115,000 flyers on Sandy matters, including job opportunities. We established a Sandy community outreach team to create a two-way channel of communication between NYCHA and residents on all things Sandy – and more than half of the 24-person team are residents. Freddie Melendez, a NYCHA resident who lives in Coney Island, is a proud member of the team. He said: "I love my job, I love working with people. We take care of the developments that were affected by Hurricane Sandy. We go to those affected areas and talk to the residents. We want to hear them out."

Job creation is another significant silver lining in the storm's cloud, and NYCHA is working hard to connect residents with life-changing career opportunities associated with the recovery and resiliency work. Of the more than 400 people employed so far, about 250 were hired as part of the Section 3 program, far exceeding the program's requirement that at least 30 percent of new hires for federally funded projects are low-income residents of the community. More than half of the Section 3 hires – 164 individuals – are NYCHA residents, who have been connected to jobs as laborers, electricians, asbestos handlers, security guards, administrative employees, and more. Even though only 10 percent of the recovery funding is subject to Section 3 hiring requirements, NYCHA decided to apply the hiring guidelines to the entirety of the work to create as many opportunities as possible for residents.

NYCHA secured \$1.4 million from HUD to create a pre-apprenticeship program that will connect up to 100 Sandy-impacted residents to union jobs and membership. NYCHA released a Request for Proposals (RFP) in September 2016, but did not receive responses from potential partners who would develop the training and job placement programs. We revised and re-issued the RFP, with responses due by March 7. We are eager to get this program up and running to provide our residents with another pathway to greater economic mobility.

Vladeck Houses resident Gaston Acevedo is benefitting from a similar apprenticeship program with the International Brotherhood of Electrical Workers union. He's installing lighting at Sandy-hit developments, including at Coney Island and Red Hook, and said that: "It feels great to work on Sandy recovery for other NYCHA residents. It feels like I'm doing something positive for the community."

To keep the public at large informed of our progress, we're putting our work on the map, literally. Launched in 2015, the Interactive Sandy Transparency Map, available on our website, provides information about all the recovery and resiliency work underway and planned at each Sandy-impacted development. It includes details like the scope of work, project phase, estimated funding levels and timelines, renderings, and contractor details.

Moving Forward

We are making history, bringing NYCHA's buildings into the 21st century and protecting this precious resource of affordable housing for generations to come. While we're cementing New York's reputation as a city that rebuilds with resiliency, we are improving residents' quality of life and creating career opportunities that transform lives and lift up communities.

Recovering from a storm of Sandy's magnitude is neither easy nor quick. Sandy brought significant destruction to 219 buildings, and we have always endeavored to repair the damage and build back right, in a way that benefits our communities and our city to the greatest extent possible. We have more work to do, but are pleased that we are on track to have major construction started at all impacted developments by the end of this year.

Thank you to the Mayor, members of the City Council, our federal representatives, residents, community leaders, and other partners for helping us

bring to fruition the largest construction program in NYCHA's history. And thank you for your ongoing support as we continue to move forward and rebuild.

Thank you. We are happy to answer any questions you may have.

Shirley Aikens- Resident Association Leader

Carey Gardens New York City Housing Authority

February 28, 2017

Superstorm Sandy as we all know was very devastating for many people, but for residents living in Carey Gardens we are still lost in the aftermath. Four years later, nothing as yet has been done to rebuild the much needed problems which one include ground floor apartments, playgrounds where our children continue to play on broken slides, bars and water sprinklers which doesn't work due to sand and sewage build up, the smell of mildew and mold lingers in all three buildings (684 units) and also within the community center which doesn't have working water fountains because the water came up nearly six feet. Carey Gardens PAL Day Care Center and the development continue to have leaky roofs where water comes into resident's apartment on the top floors. The wooded benches was never replaced nor cleaned from feces and sand but was painted over; these benches are now badly deteriorating same as entrance into and out the buildings. The peeling of paint, smell of mildew and mold comes out from the mailboxes and crawl spaces. I find it ridiculous where these portable boilers are still installed after many years and costing millions of dollars. These boilers are noisy with smoke coming out which has made residents sick and having a sleepless night. The heat inside the apartments can reach 100 degrees making it hard to breathe due to the fact housing don't have access to enter any of the portable boilers. People have been burned, had nose bleeds and asthma attacks to the point where residents consistently complain of the heat. I have kept my windows open since Sandy due to the heat in my apartment which is unbearable. All one have to do is look up and see every ones windows are open even on cold days and that will tell you there's a problem.

There have been many meetings with NYCHA Brooklyn Property Management, NYCHA Sandy Recovery & Resiliency, Assembly Member Pamela Harris and Councilmember Mark Treyger; where no contract work has begun at my

development after four years. Carey Gardens was awarded at least \$124 million from FEMA; the residents need to know when, will the work begin.

I thank you for listening to my testimony, and hoping results will be made in the coming month.

City Council

Good day everyone. My name is Jasmine Coppin and I have been a NYCHA resident for 17 years. I also own a business with two employees by the name of See That Girl's Cleaning Service. As of 2013, I have been a member of NYCHA's REES program and thus I have been able to achieve professional growth that has allowed me to be a better business owner. Recently, I registered the business as Section 3 Business Concern and so far, it has been one of the best things that I have done for the business. Being a Section 3 Business Concern and working as a subcontractor on the Sandy Recovery Project makes me appreciate the opportunity. Simply because the business is aiding those working hard in rebuilding Coney Island. March 6th, will make 4 years in business and every year has been interesting. I look forward to continued business as a NYCHA resident and as a Section 3 Business Concern. This is a benefit that can be used in employing other NYCHA residents who are interested in working. Thank you for the opportunity to help grow my business and have blessed day.

Jessica Thomas
LaGuardia Tenant Association President
LaGuardia Houses

February 23, 2017

New York City Council
250 Broadway,
New York, NY

The NYCHA Sandy Program Design and community outreach team responded quickly to all our questions during the Sandy Program design phase. They communicated the scope of work very clearly to residents during the LaGuardia Tenant Association Meetings.

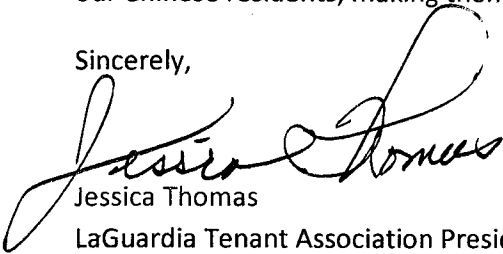
The level of communication with the Sandy Program Management and Community Outreach Team is very good. The NYCHA Community Outreach Representative, Micaela O'Connell is constantly in touch with me, the Tenant Association President, and the residents. Every week, she calls me to confirm residents are receiving enough heat and hot water.

The NYCHA Community Outreach team makes the residents feel included in the program and updates us on any changes at all our tenant association meetings.

Every month, the Community Outreach Representative, Micaela O'Connell explains the Section 3 career opportunities, the application process and who to contact.

I really appreciate the multi-lingual services the NYCHA Hurricane Sandy Community Outreach Team provides. Team member Alina Kong is extremely helpful translating the Sandy Program information to our Chinese residents, making them feel included.

Sincerely,

A handwritten signature in black ink, appearing to read "Jessica Thomas", written over a printed name and title.

Jessica Thomas
LaGuardia Tenant Association President

To: City Council, 250 Broadway

Re: New York City Housing Authority Community Outreach

Date: February 27, 2017

Testimonial Letter: Kenneth McIntosh, President, Two Bridges Resident Association

For more than a year, I have worked with Micaela from the NYCHA Community Outreach. She attends our monthly Two Bridges Resident Association General Meetings, where she provides the tenants with lots of information about the Sandy Relief Outreach Program as a part of the NYCHA program.

Every Monday, I receive a call from Micaela as she checks in to inquire about any problems we may be having with the heat, hot water or elevator. She monitors closely through these weekly calls, any issue that may affect the tenants. She follows up on any repair tickets that have been submitted on behalf of our tenants. She is a great source of information and she uses her resources to help me and the people in our building. She keeps me informed about all upcoming events and anything she feels that will be beneficial to our residents of Two Bridges.

She sends me a text whenever she doesn't hear from me to make sure everything is okay and to offer her assistance with any situations that may be happening in our building

Her dedication and her consistent presence at our meeting is a great help to me and shows how much she cares about the tenants, here at Two Bridges. I look forward to working with her in the future.

Sincerely,


Kenneth McIntosh

President, Two Bridges Resident Association

Mrs. Mercedes Harwell and Mrs. Daphne Williams
Riis and RIIS II, Tenant Association President and Vice President

February 27, 2017

New York City Council
250 Broadway
New York, NY 10007

Dear New York City Council:

I would like to express my gratitude to the Office of Disaster Recovery, Sandy Program Unit and specifically to the members of the Community Outreach Team in their exceptional work they are doing for our Development. I would like to give a special mention to Arlene Martinez in her tireless work on Sandy Recovery *relocations* and all other issues that she handled immediately, as well as the efforts of the foreign language team and Community Support staff that she leads. The Community Outreach office worked with us to communicate information to the residents about relevant information, public meetings. I would also like to thank the Office of Disaster Recovery, Sandy Program Unit in their efforts to maintaining the Tenant Association informed about the CCTV camera installation and on the progress of the upcoming construction projects at Riis Houses. Through this process, NYCHA Sandy Recovery Outreach personnel kept me informed by phone and in person and attended all of our resident meetings. The Sandy Recovery team contacts me weekly via phone call regarding heat and hot water issues at Riis and Riis II. They also email me regarding the meetings regarding the permanent repair work that is supposed to take place in Riis and Riis II. At all times, I felt my input was important to the staff. Furthermore, the preliminary work in Riis and Riis II Houses was completed without significant issues.

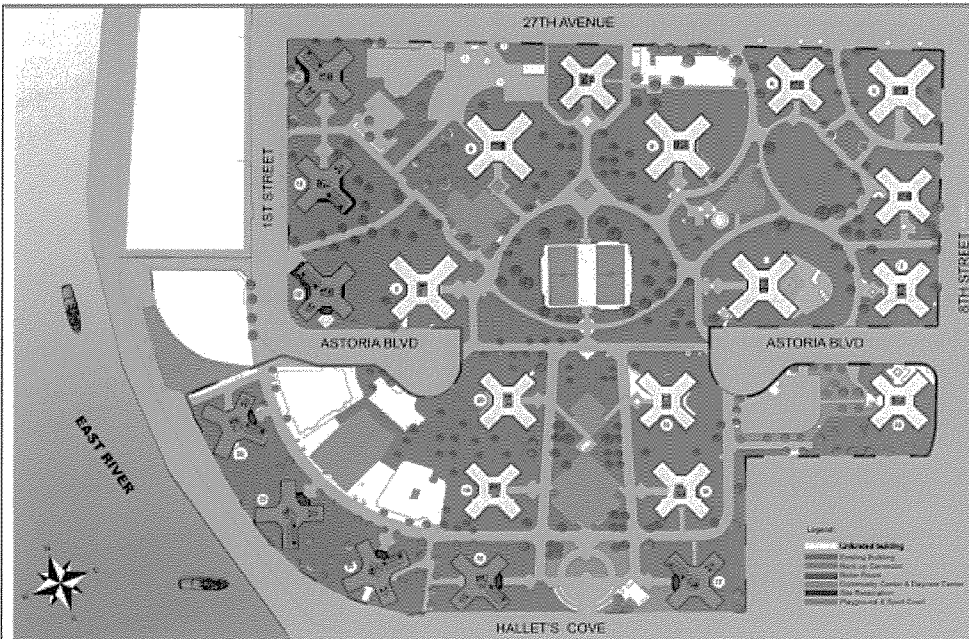
We do appreciate the Sandy team for taking an active interest in our community at RIIS They attended We look forward to working closely with the team as the larger recovery and resiliency work takes place in 2017.

Sincerely,

Mercedes Harwell 02-27-2017

Mrs. Mercedes Harwell and Mrs. Daphne Williams
Riis and RIIS II, Tenant Association President and Vice President

*Due Chile working with me for
CCTV cameras for Riis*



ASTORIA HOUSES

Queens, NY

CAPITAL PROJECT DIVISION - DISASTER RECOVERY

Conceptual

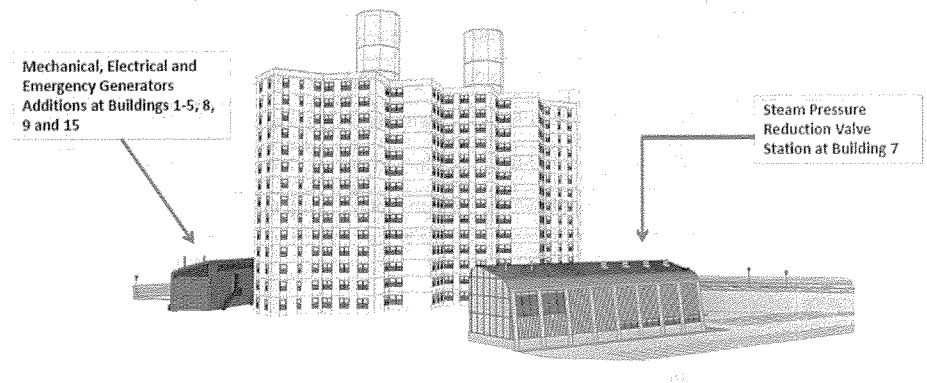
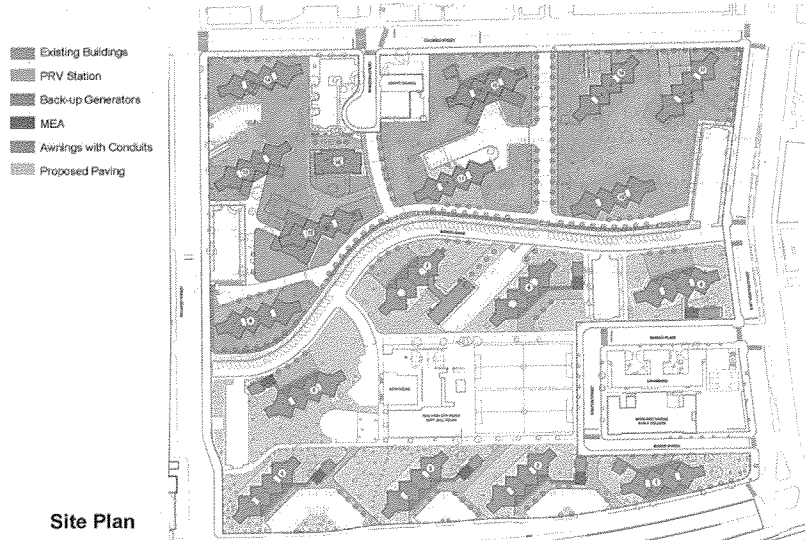


							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
ASTORIA	\$ 88,053,000	Total #	22	1,104	3,180	32.3	12	37	12	22
Est. Construction Start*	Q2-16	# of Damaged Bldgs. funded by FEMA**	8	408	1,081					
FEMA 428 Scope										
	▪ Flood proofing above the Design Flood Elevation (DFE) to protect the building envelope in flood prone areas									
	▪ Installation of stand-by generators to provide full back-up power at affected buildings									
	▪ New electrical annex to be elevated above the Design Flood Elevation (DFE) to house new C/T cabinets at affected buildings									
	▪ Full roof replacement at affected buildings									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ CCTV and Layered Access Systems (LAC)									
	▪									
	▪									
	▪									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



NEW MECHANICAL, ELECTRICAL AND PLUMBING ADDITIONS



CAPITAL PROJECTS
DIVISION
RECOVERY AND RESILIENCE

BARUCH HOUSES
Manhattan, NY
CONCEPTUAL

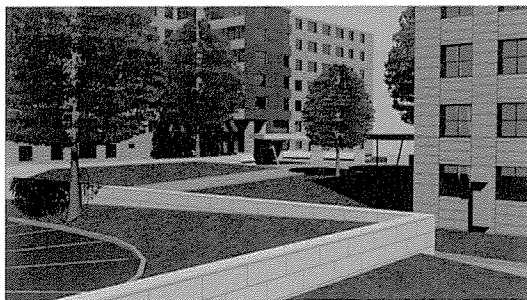
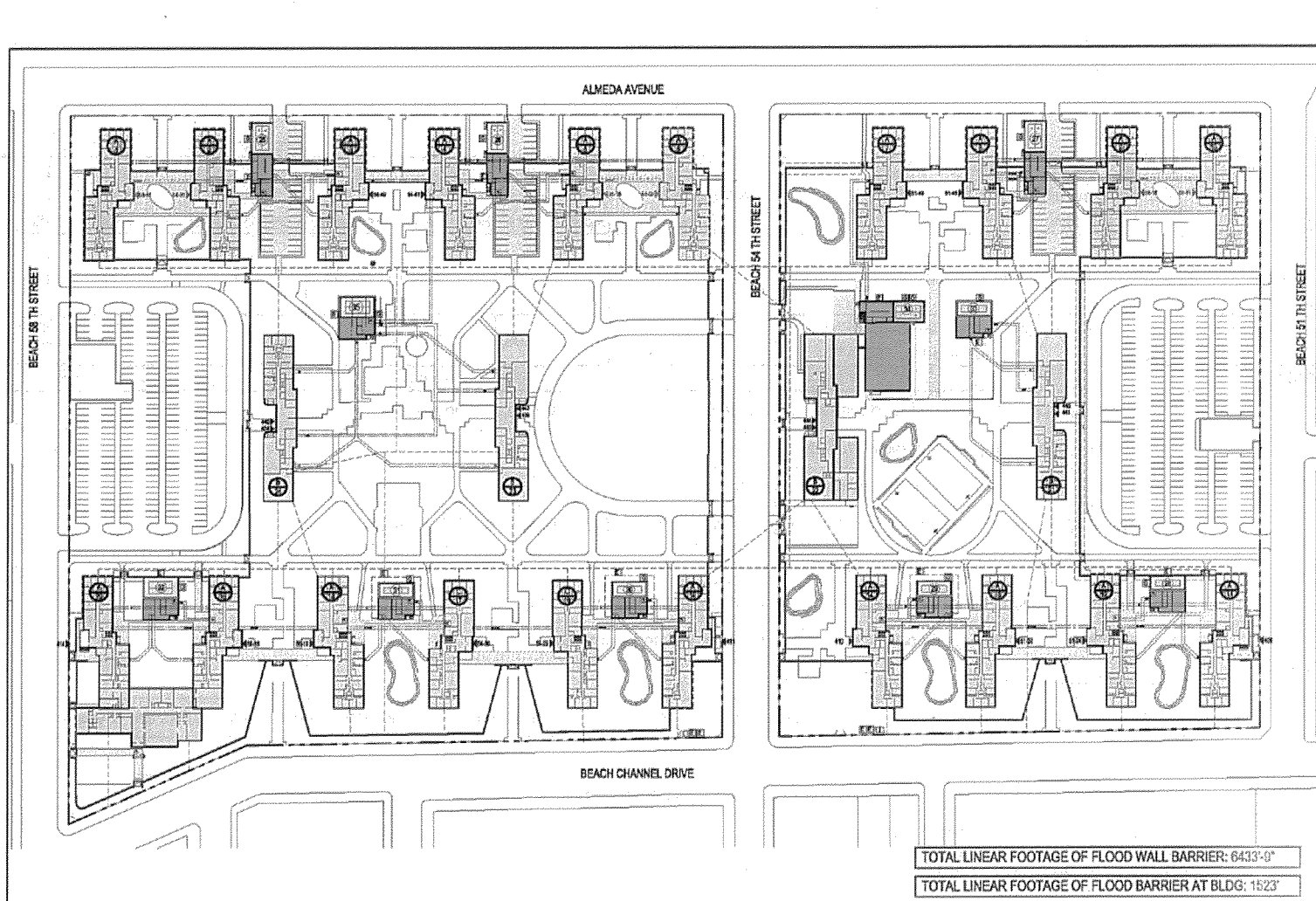


							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
BARUCH	\$ 129,470,000	Total #	18	2,385	5,392	28.54	7	74	26	2
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	9	1,133	2,776					
FEMA 428 Scope										
	▪ Restoration of playground surface areas & play structures damaged by Sandy									
	▪ Site Restoration(sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Abate & restore building crawl spaces at damaged buildings									
	▪ New electrical rooms to be elevated above the Design Flood Elevation(DFE) to house new C/T cabinets									
	▪ Full roof replacement at damaged buildings									
	▪ Repair & restore architectural features doors, frames & hardware of common areas damaged by flooding									
	▪ Renovation of first floor apartments damaged by Sandy									
	▪ Restoration of Sandy damaged portions of mechanical, electrical & plumbing systems									
	▪ Remove underground fuel oil storage tank(s)									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV and Layered Access Systems(LAC) at damaged buildings									
	▪ Installation of stand-by generators to provide full back-up power at damaged buildings									
	▪ Flood proofing above the Design Flood Elevation(DFE) to protect the building envelope in flood prone areas									

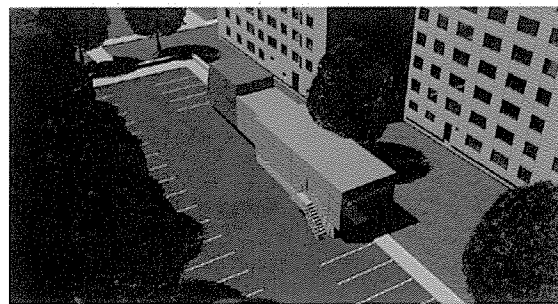
DFE - Design Flood Elevation

* These are estimated dates and are subject to change

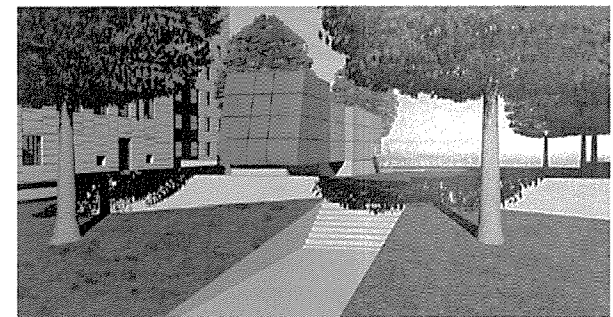
**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



New Flood Walls with Landscaped Berms



New Electric Service and Generator Building from Above



New Electric Service and Generator Building View from Grade

NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

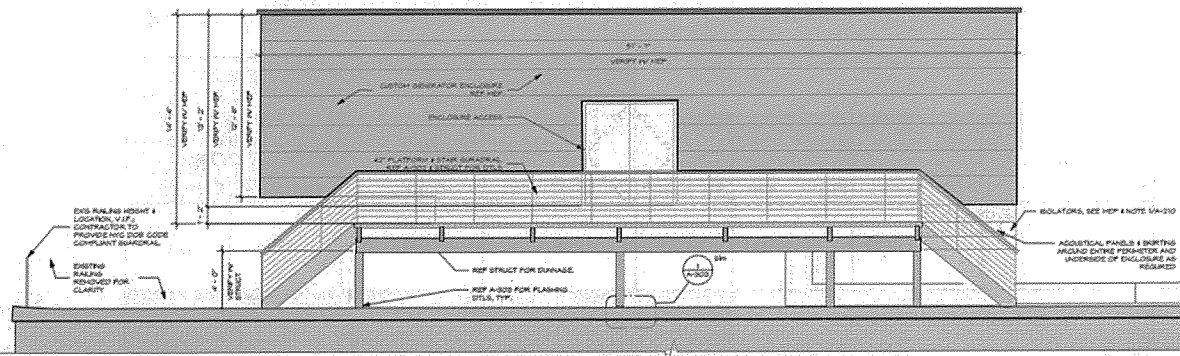
Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
OCEAN BAY APARTMENTS (BAYSIDE)	\$ 280,689,000	Total #	24	1,389	3,623	32.33	5	31	10	31
Est. Construction Start*	To Conform to RAD schedule	# of Damaged Bldgs. funded by FEMA**	23	1,306	3,405					
FEMA 428 Scope										
	▪ Flood proofing above the Design Flood Elevation (DFE) to protect the building envelope in flood prone areas									
	▪ Replacement of boiler equipment above the DFE									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ New electrical rooms to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ New medium voltage power distribution system on site									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Full roof replacement at affected buildings									
	▪ CCTV & Layered Access Systems (LAC)									
	▪									
	▪									
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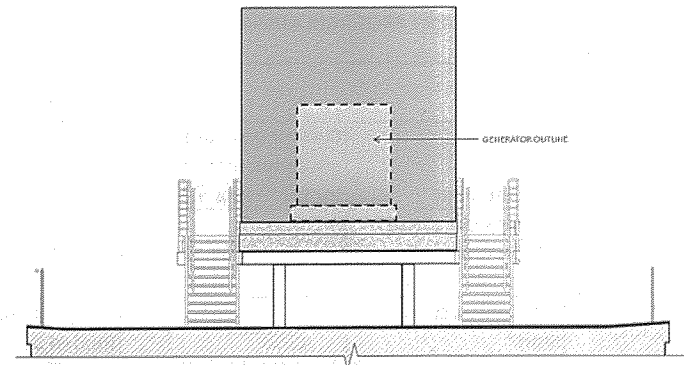
DFE - Design Flood Elevation

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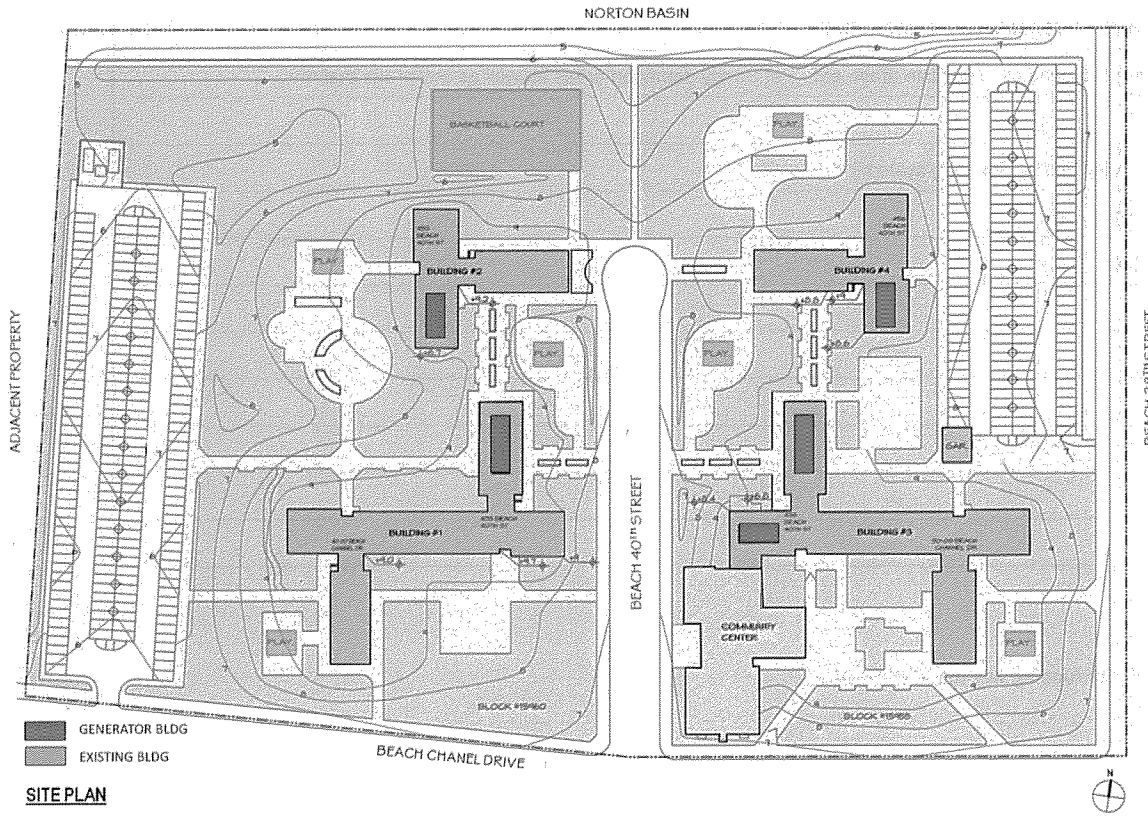
**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



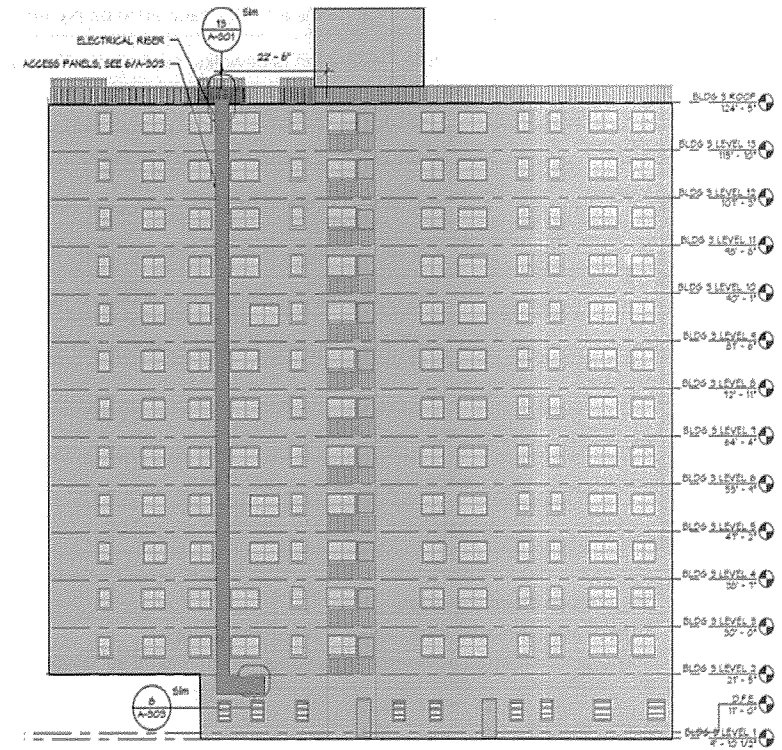
ROOF TOP GENERATOR ELEVATION B



ROOF TOP GENERATOR ELEVATION A



SITE PLAN



BUILDING ELEVATION

NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

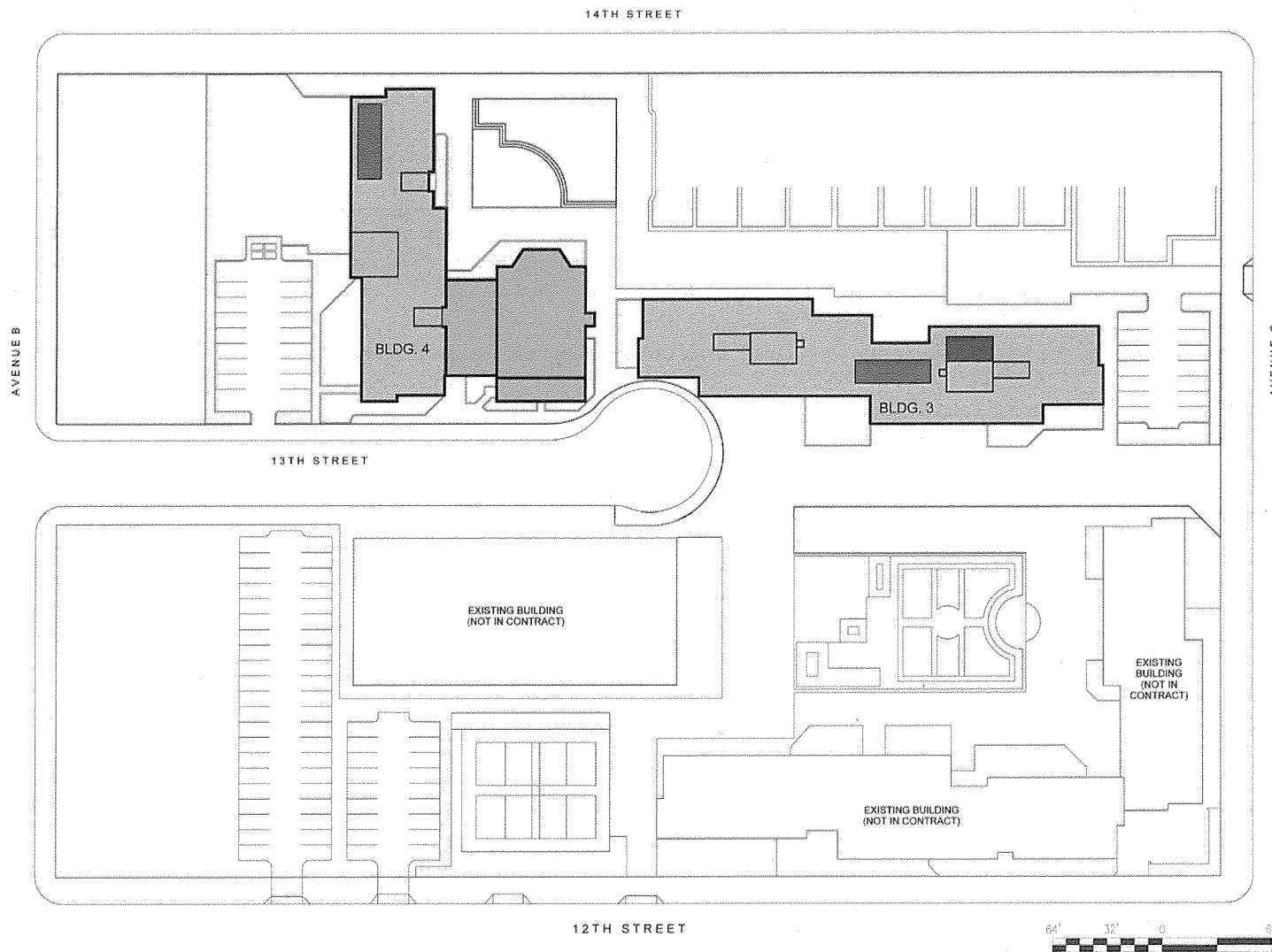
Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
BEACH 41ST STREET- BEACH CHANNEL DRIVE	\$ 68,275,000	Total #	4	712	1,697	13.31	5	31	10	31
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Flood proofing above the Design Flood Elevation (DFE) to protect the building envelope in flood prone areas									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Electrical rooms and C/T cabinetsto be protected above the Design Flood Elevation (DFE)									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Restoration of Sandy damaged portions of mechanical, electrical & plumbing systems									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Partial roof replacement in areas affected by construction									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV and Layered Access Systems (LAC)									
	▪									
	▪									
	▪									
	▪									

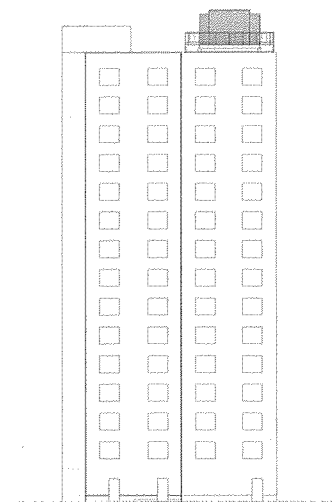
DFE - Design Flood Elevation

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SITE PLAN



ELEVATION (PARTIAL)



CAPITAL PROJECTS
DIVISION
DISASTER RECOVERY

CAMPOS PLAZA 2

Manhattan, NY

Conceptual



LiRo Architects + Planners, P.C.
A LiRo Group Company
111 Broadway, New York, NY 10006

NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

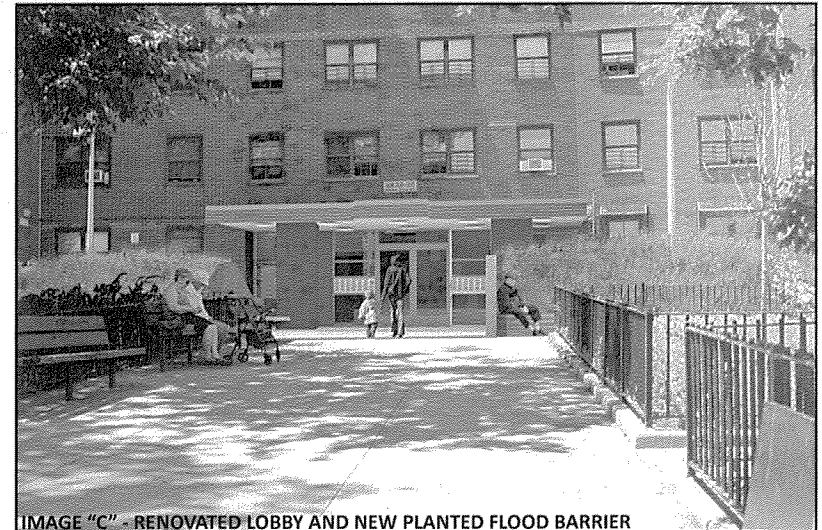
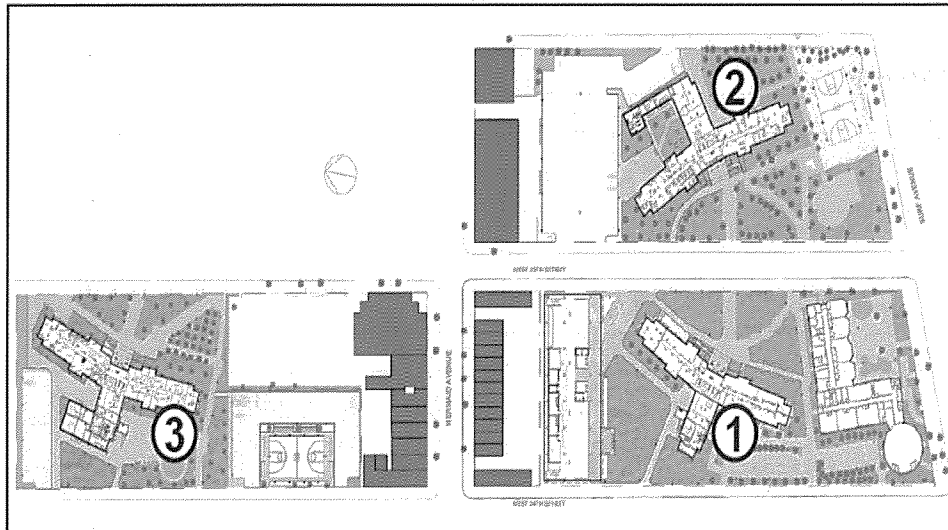
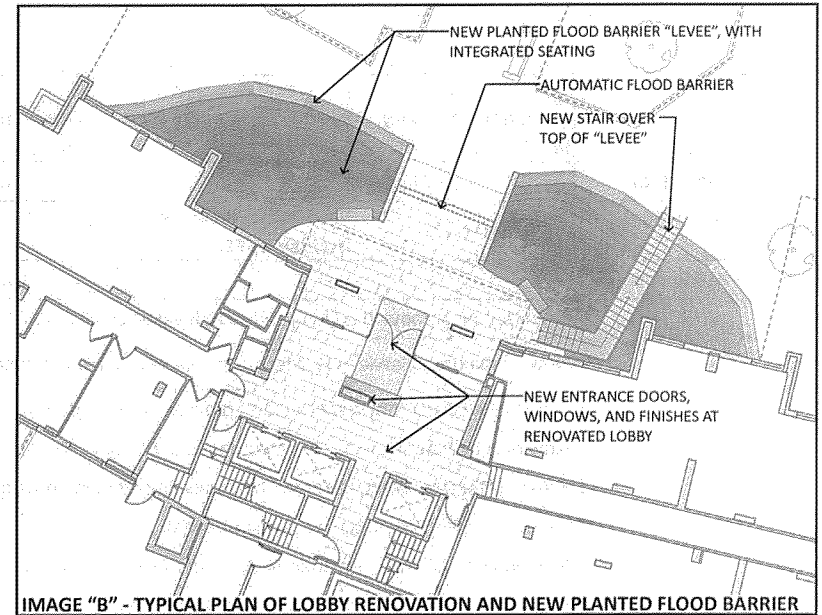
Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
CAMPOS PLAZA II	\$ 24,964,432	Total #	2	224	530	12	74	27	2	42444
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ The new electric rooms are protected to DFE (Design Flood Elevation)									
	▪ Full roof replacement									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV and Layered Access Systems									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Dry flood proofing above DFE to protect building envelope in flood prone areas									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

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NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

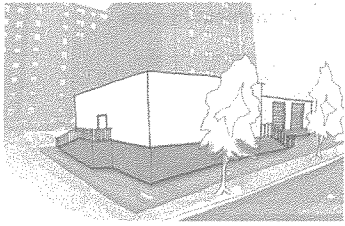
Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
CAREY GARDENS	\$ 86,711,000	Total #	4	682	1,681	8.37	8	46	23	47
Est. Construction Start*	Q3-17	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Flood proofing above the Design Flood Elevation (DFE) to protect the building envelope in flood prone areas									
	▪ New Community Services Building to house new boiler equipment , generators and Community Center above the Design Flood Elevation (DFE)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ New electrical annex to be elevated above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Remove underground fuel oil storage tank(s)									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Restoration of playground surface areas & play structures damaged by Sandy									
	▪ Full roof replacement									
	▪ CCTV and Layered Access Systems (LAC)									
	▪									
	▪									
	▪									
	▪									

DFE - Design Flood Elevation

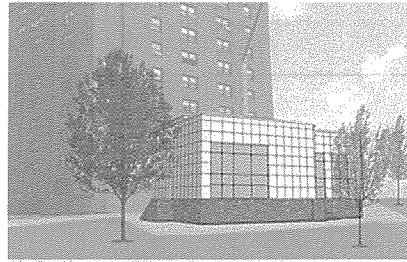
* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



BOILER / GENERATOR BUILDING MASSING

3 Perspective 1
SCALE: NTS



SOUTHEAST VIEW
BOILER / GENERATOR BUILDING ADDITION

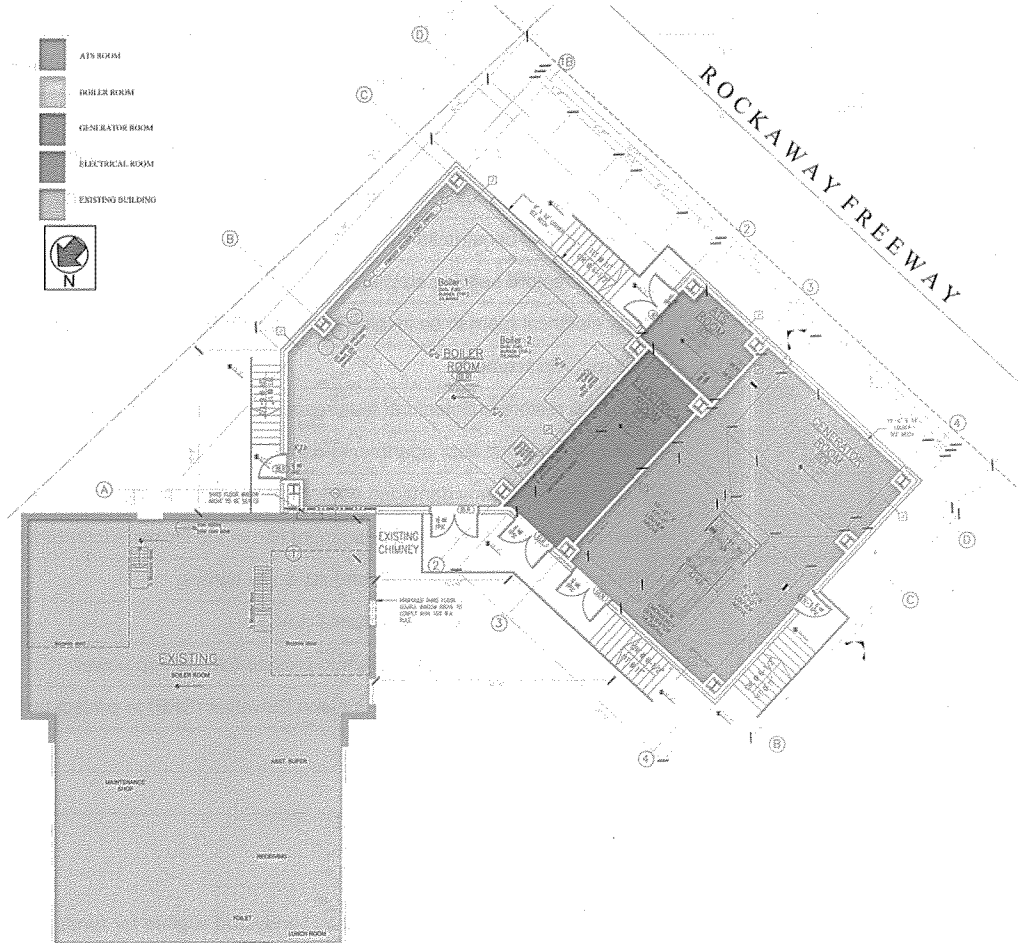
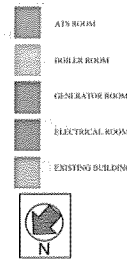
4 Perspective 2
SCALE: NTS



PROPOSED BUILDING
EXISTING BUILDING



1 Site Plan
SCALE: 1/4" = 1'-0"



2 First Floor Plan
SCALE: 1/4" = 1'-0"



CAPITAL PROJECTS
DIVISION
RECOVERY AND RESILIENCE

CARLETON MANOR
QUEENS, NY
CONCEPTUAL

PURCELL
ARCHITECTS PC
5 WEST 37th Street, Suite 1102
NEW YORK, NEW YORK 10018,
t. (212) 921 - 1177

NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
CARLETON MANOR	\$ 29,554,000	Total #	1	169	363	3.33	5	31	10	31
Est. Construction Start*	Q4-16	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of playground surface areas & play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Abate & restore building crawlspace									
	▪ New electrical room to be located above the Design Flood Elevation(DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore architectural features(walls, floors, doors, frames & hardware) of common areas damaged by flooding									
	▪ Renovation of first floor apartments damaged by Sandy									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ New building to house boiler equipment above the Design Flood Elevation (DFE)									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV and Layered Access Systems (LAC)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Flood proofing above the Design Flood Elevation (DFE) to protect building envelope in flood prone areas									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

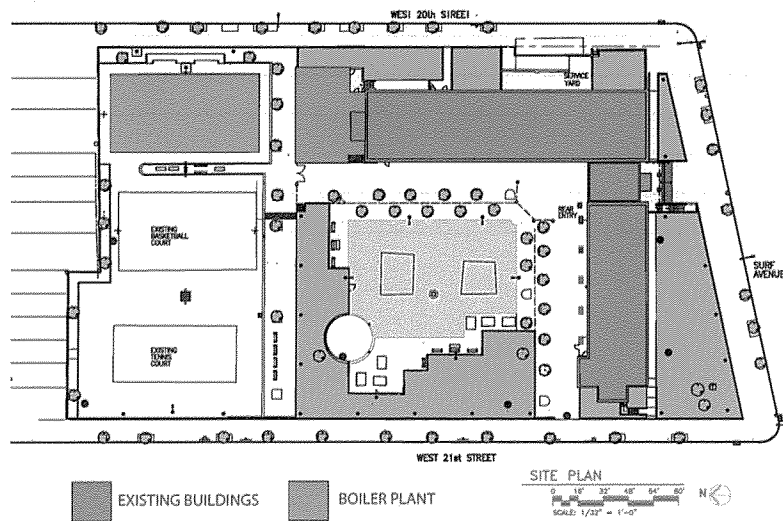
**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



NORTHEAST VIEW



NORTHWEST VIEW



SITE PLAN

SCALE: 1/32" = 1'-0"



CAPITAL PROJECTS
DIVISION
RECOVERY AND RESILIENCE

CONEY ISLAND 1B BROOKLYN, NY CONCEPTUAL



SOUTHEAST VIEW
JAMES MCCULLAR
ARCHITECTURE, PC

NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

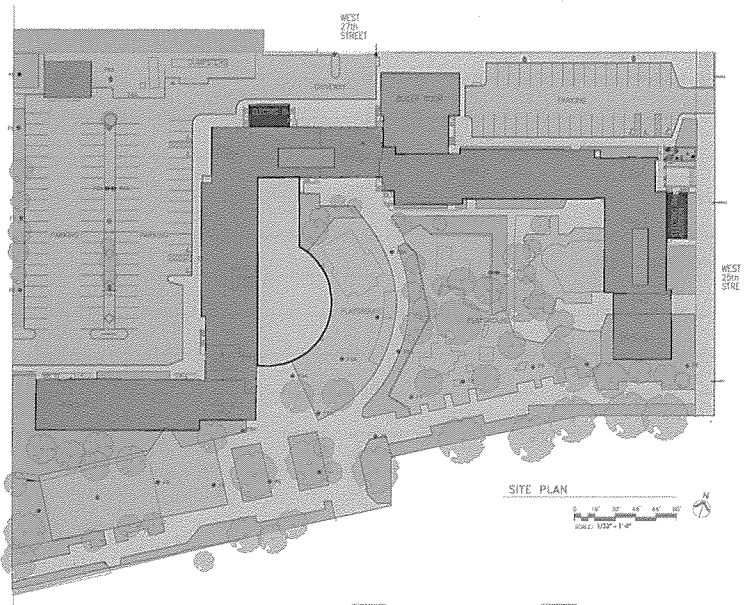
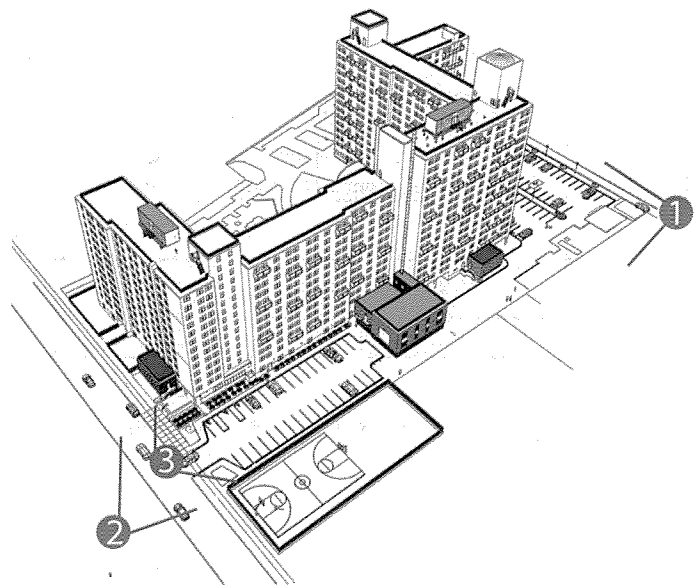
Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
CONEY ISLAND I (SITE 1B)	\$ 25,181,000	Total #	1	192	513	2.14	8	46	23	47
Est. Construction Start*	Q4-16	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of playground surface areas and play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ New electrical room to be located above the Design Flood Elevation(DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore architectural features(walls, floors, doors, frames & hardware) of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ New building to house boiler equipment above the Design Flood Elevation (DFE)									
	▪ Replacement of underground conduits & site lighting									
	▪ Upgrade CCTV and Layered Access Systems (LAC)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Upgrade of stairwell lighting									
	▪ Flood proofing above DFE to protect building envelope in flood prone areas									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



- EXISTING BUILDINGS
- BOILER PLANT
- COMMUNITY CENTER
- BACK-UP GENERATORS
- ANNEX BUILDINGS (ELECTRICAL ROOM)



CAPITAL PROJECTS
DIVISION
RECOVERY AND RESILIENCE

CONEY ISLAND 4 & 5 BROOKLYN, NY CONCEPTUAL

1



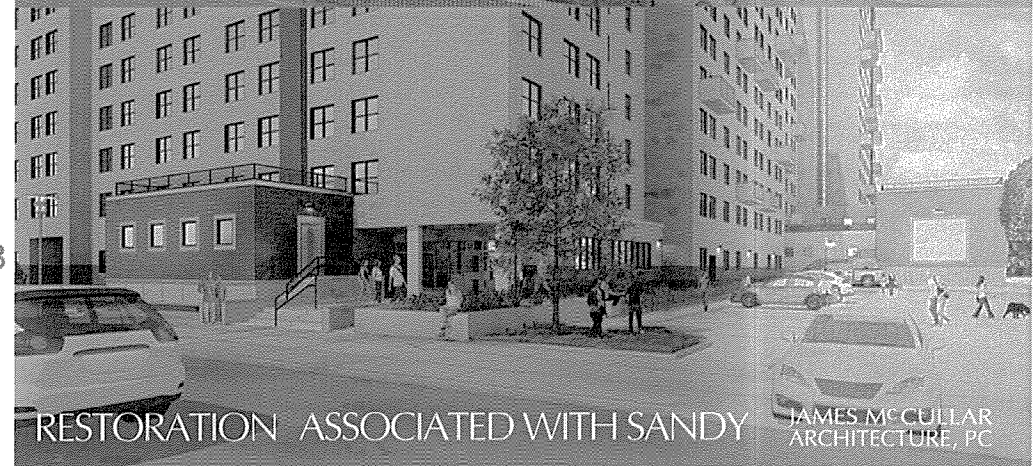
NORTHWEST VIEW

2



NORTHEAST VIEW

3



RESTORATION ASSOCIATED WITH SANDY

JAMES MCCULLAR
ARCHITECTURE, PC

NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
CONEY ISLAND I (SITES 4 & 5)	\$ 40,899,000	Total #	1	375	1,080	4.3	8	46	23	47
Est. Construction Start*	Q2-16	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of playground surface areas & play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ New electrical rooms to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Abate & restore building crawlspace									
	▪ Full roof replacement									
	▪ Repair & restore architectural features(walls, floors, doors, frames & hardware) of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ New building to house boiler equipment above the Design Flood Elevation (DFE)									
	▪ Replacement of underground conduits & site lighting									
	▪ Upgrade CCTV and Layered Access Systems (LAC)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Flood proofing above Design Flood Elevation (DFE) to protect building envelope in flood prone areas									
	▪ Renovation and rehabilitation of community center									

DFE - Design Flood Elevation

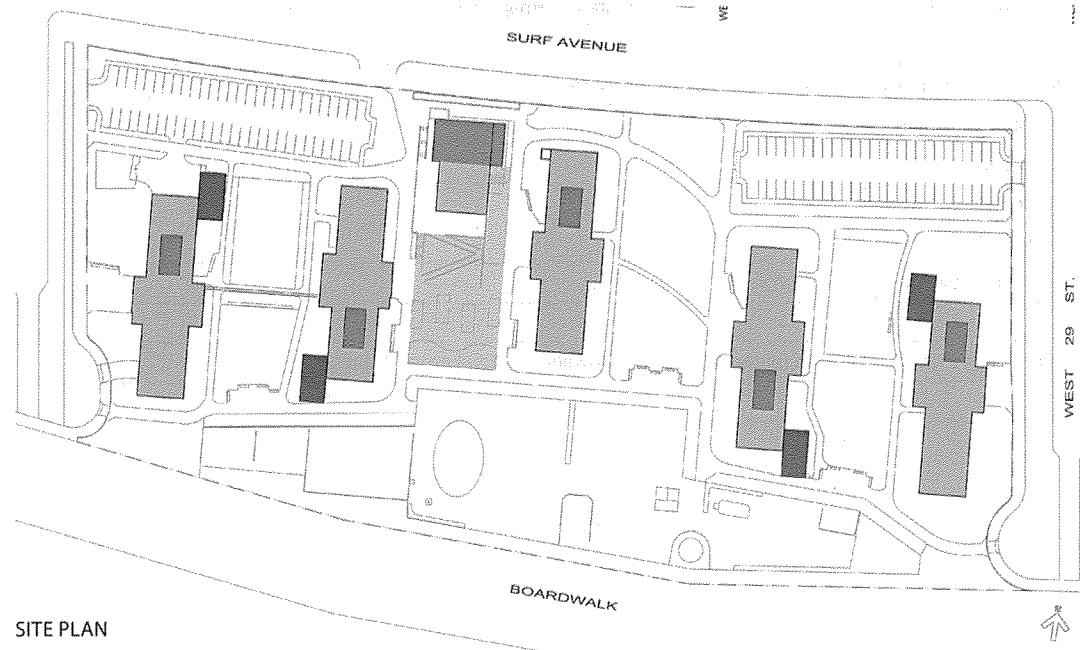
* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA

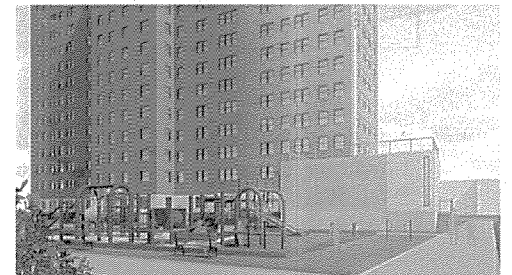


LEGEND

- Existing Buildings
- Annex Buildings
- Back-up generators
- Boiler Plants
- Community Centers/ Childcare Centers
- New Landscaping



SITE PLAN



CAPITAL PROJECTS
DIVISION
RECOVERY AND RESILIENCE

CONEY ISLAND HOUSES

Brooklyn, NY
Conceptual



LiRo Architects + Planners, P.C.
A LiRo Group Company
111 Broadway, New York, NY 10006

NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
CONEY ISLAND HOUSES	\$ 112,561,107	Total #	5	534	1,183	6.86	8	46	23	47
Est. Construction Start*	Q2-17	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of playground surface areas & play structures damaged by Sandy									
	▪ Site Restoration(sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc....) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ New electrical rooms to be elevated above the Design Flood Elevation(DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore architectural features doors, frames & hardware of common areas damaged by flooding									
	▪ Renovation of first floor apartments damaged by Sandy									
	▪ Restoration of Sandy damaged portions of mechanical, electrical & plumbing systems									
	▪ New building to house boiler equipment above the Design Flood Elevation(DFE)									
	▪ Remove underground fuel oil storage tank(s)									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV & Layered Access Systems(LAC)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Upgrade of stairwell lighting									
	▪ Flood proofing above the Design Flood Elevation(DFE) to protect the building envelope in flood prone areas									
	▪ New multi-purpose room									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
SURFSIDE GARDENS	\$ 100,041,000	Total #	5	598	1,117	7.42	8	46	23	47
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of playground surface areas & play structures damaged by Sandy									
	▪ Site Restoration(sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ New electrical rooms to be located above the Design Flood Elevation(DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore architectural features(walls, floors, doors, frames & hardware) of common areas damaged by flooding									
	▪ Renovation of first floor apartments damaged by Sandy									
	▪ Restoration of Sandy damaged portions of mechanical, electrical & plumbing systems									
	▪ New building to house boiler equipment above the Design Flood Elevation(DFE)									
	▪ Remove underground fuel oil storage tank(s)									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV & Layered Access Systems(LAC)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Flood proofing above the Design Flood Elevation(DFE) to protect the building envelope in flood prone areas									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



SITE DESIGN: STANTEC



CAPITAL PROJECTS
DIVISION

CONEY ISLAND SITE 8, O'DWYER GARDENS & SURFSIDE GARDENS Brooklyn, NY

CONCEPTUAL

CURTIS + GINSBERG ARCHITECTS

299 BROADWAY . SUITE 1107
NEW YORK, NY 10007
212.929.4417

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
O'DWYER GARDENS	\$ 104,842,000	Total #	6	572	953	6.34	8	46	23	47
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
▪ Restoration of playground surface areas & play structures damaged by Sandy										
▪ Site Restoration(sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be										
▪ affected by construction										
▪ New electrical rooms to be located above the Design Flood Elevation(DFE) to house new C/T cabinets										
▪ Full roof replacement										
▪ Repair & restore architectural features(walls, floors, doors, frames & hardware) of common areas damaged by flooding										
▪ Renovation of first floor apartments damaged by Sandy										
▪ Restoration of Sandy damaged portions of mechanical, electrical & plumbing systems										
▪ New building to house boiler equipment above the Design Flood Elevation(DFE)										
▪ Remove underground fuel oil storage tank(s)										
▪ Replacement of underground conduits & site lighting										
▪ CCTV & Layered Access Systems(LAC)										
▪ Installation of stand-by generators to provide full back-up power										
▪ Flood proofing above the Design Flood Elevation(DFE) to protect the building envelope in flood prone areas										

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA

NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

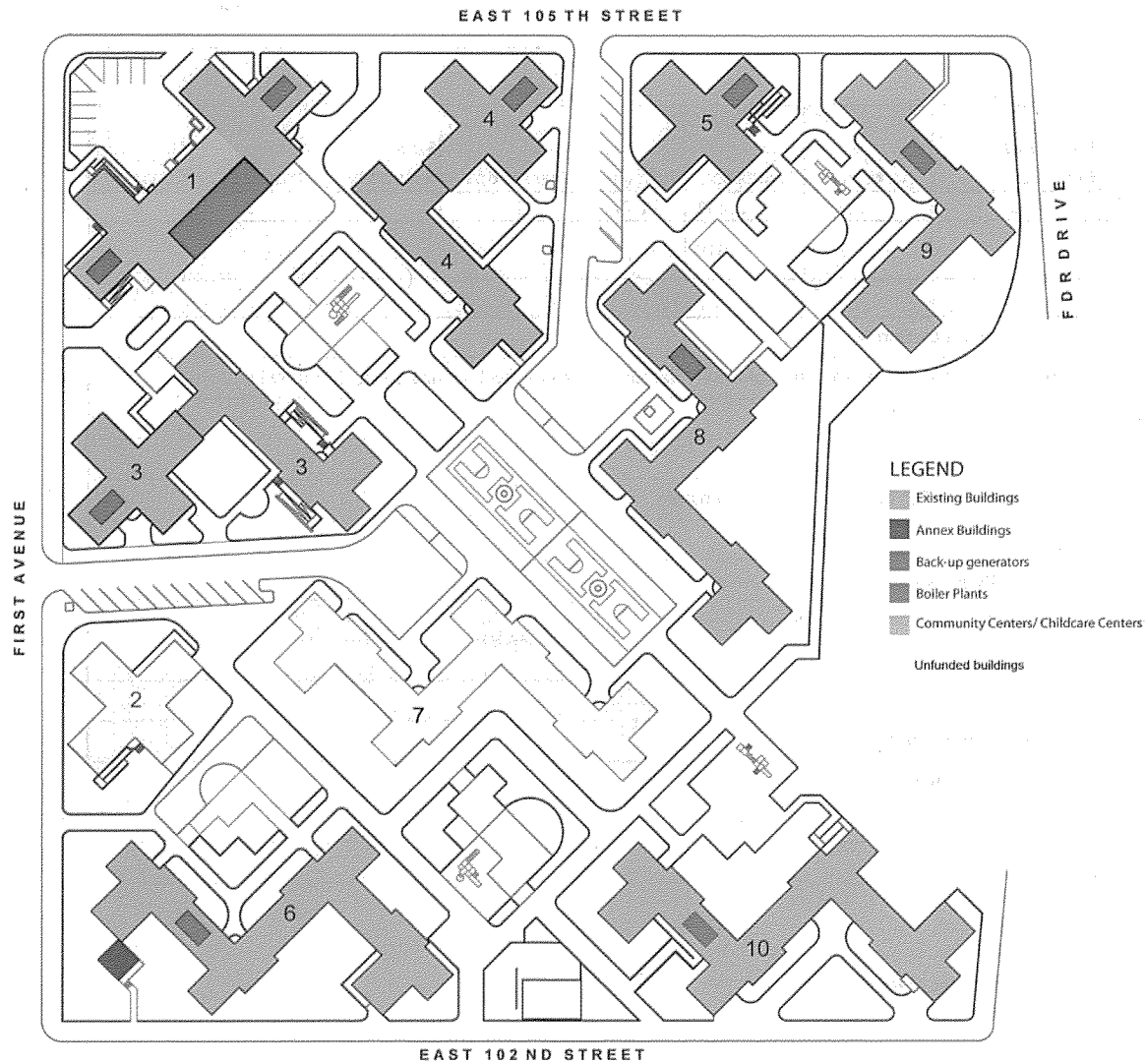
Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
CONEY ISLAND I (SITE 8)	\$ 27,678,000	Total #	1	124	356	1.41	8	46	23	47
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of playground surface areas & play structures damaged by Sandy									
	▪ Site Restoration(sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc....) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ New electrical rooms to be located above the Design Flood Elevation(DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore architectural features(walls, floors, doors, frames & hardware) of common areas damaged by flooding									
	▪ Renovation of first floor apartments damaged by Sandy									
	▪ Restoration of Sandy damaged portions of mechanical, electrical & plumbing systems									
	▪ New building to house boiler equipment above the Design Flood Elevation(DFE)									
	▪ Remove underground fuel oil storage tank(s)									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV & Layered Access Systems(LAC)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Flood proofing above the Design Flood Elevation(DFE) to protect the building envelope in flood prone areas									

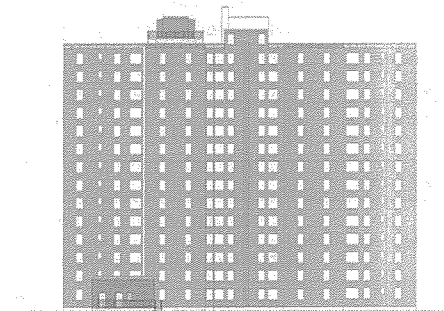
DFE - Design Flood Elevation

* These are estimated dates and are subject to change

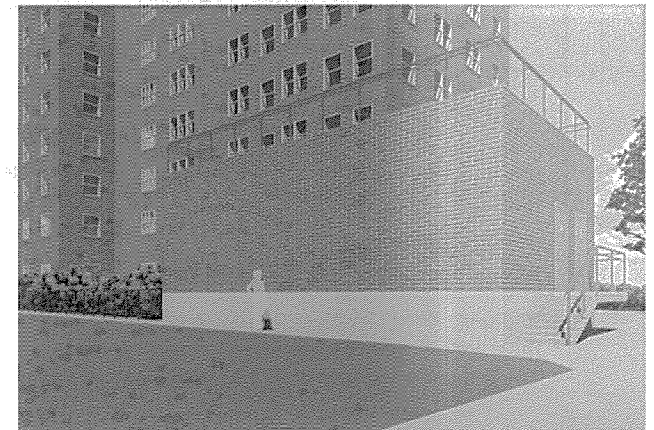
**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



SITE PLAN



ELEVATION



CAPITAL PROJECTS
DIVISION
DISASTER RECOVERY

EAST RIVER HOUSES Manhattan, NY Conceptual



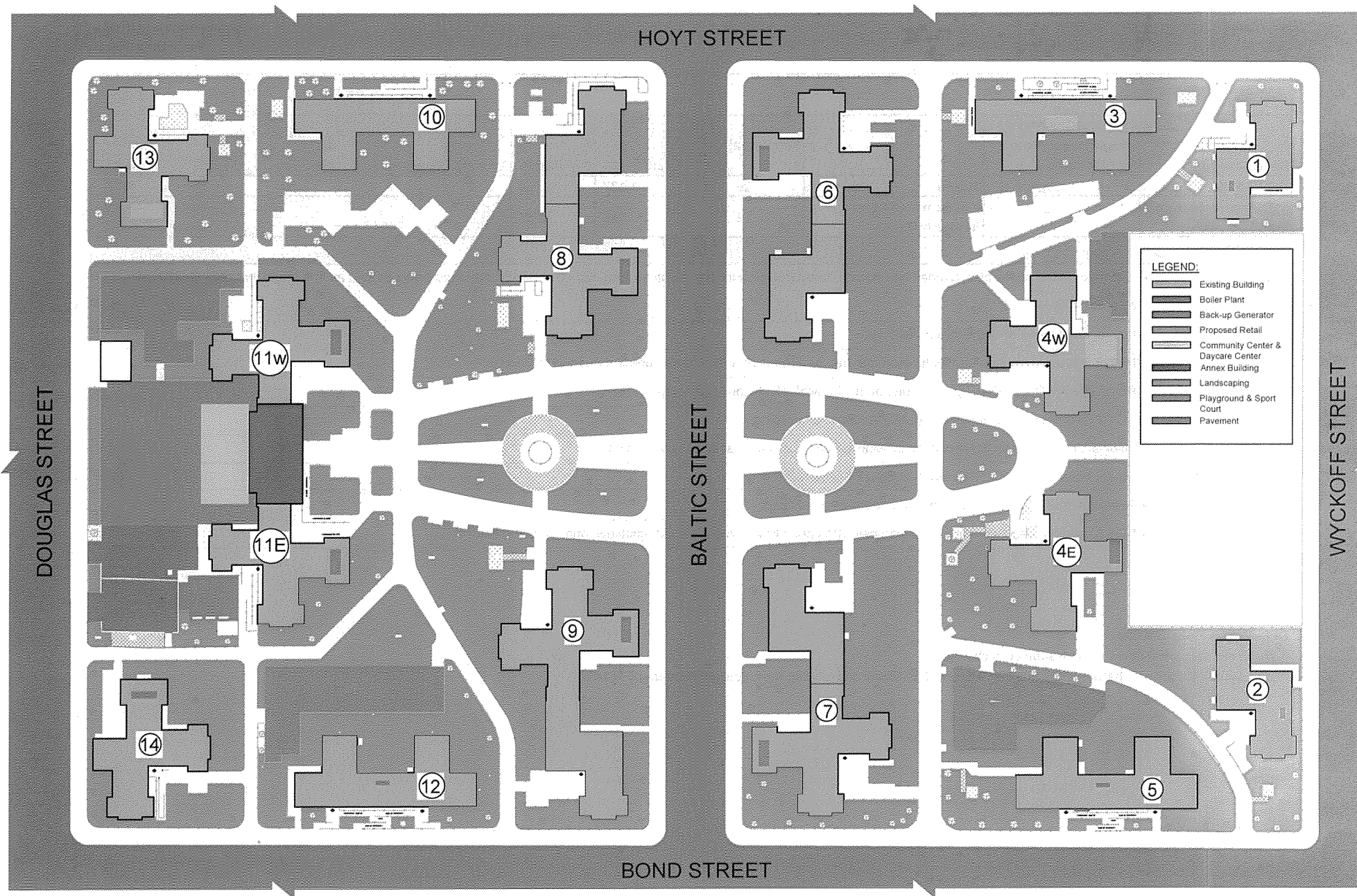
LiRo Architects + Planners, P.C.
A LiRo Group Company
111 Broadway, New York, NY 10006

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
EAST RIVER	\$ 76,394,025	Total #	10	1,157	2,431	11.77	13	68	30	8
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	8	957	2,019					
FEMA 428 Scope										
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Abate & restore building crawl spaces at damaged buildings									
	▪ New electrical rooms to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Full roof replacement at damaged buildings									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV and Layered Access Systems at damaged buildings									
	▪ Installation of stand-by generators to provide full back-up power for damaged buildings									
	▪ Dry flood proofing above DFE to protect damaged building envelope in flood prone areas									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

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CAPITAL PROJECTS
DIVISION
RECOVERY AND RESILIENCE

GOWANUS HOUSES
Brooklyn, NY
Conceptual



NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

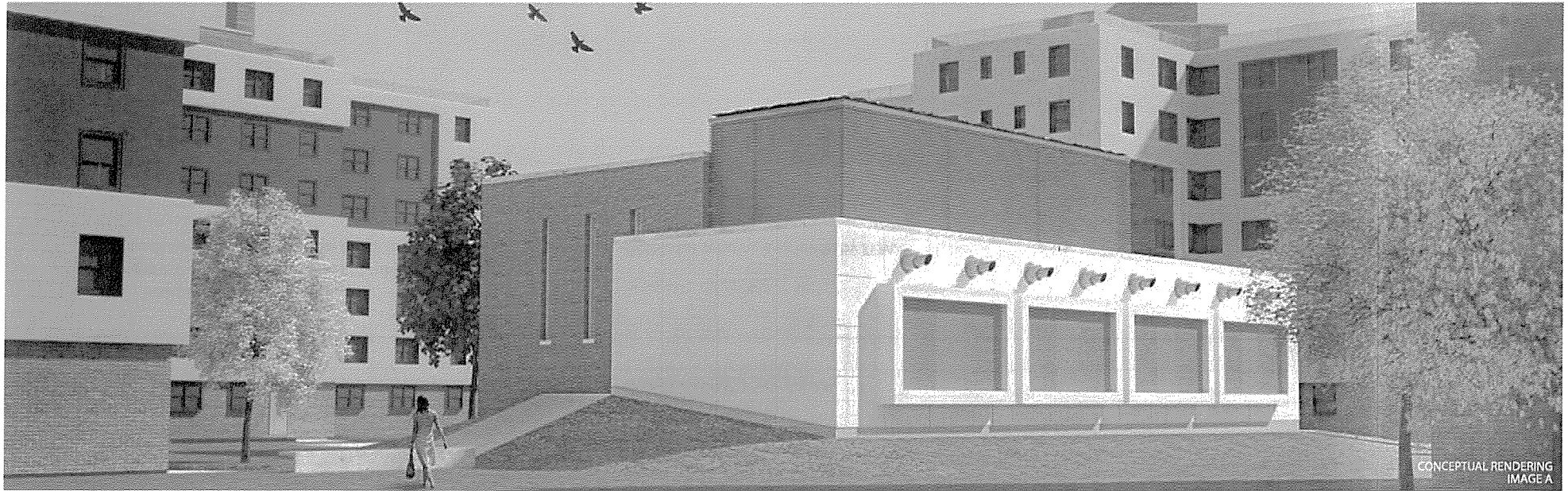
Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
GOWANUS	\$ 99,285,000	Total #	16	1,137	2,728	12.57	7	52	25	33
Est. Construction Start*	Q1-17	# of Damaged Bldgs. funded by FEMA**	12	934	2,231					
FEMA 428 Scope										
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Full roof replacement at damaged buildings									
	▪ Repair & restore architectural features doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical & plumbing systems									
	▪ CCTV & Layered Access Systems(LAC) at damaged buildings									
	▪ Installation of stand-by generators to provide full back-up power at damaged buildings									
	▪ Partial replacement of underground conduits & full site lighting									
	▪ Abate & restore building crawl spaces at damaged buildings									
	▪ New & existing electrical rooms to house new C/T cabinets at damaged buildings(Development not in flood zone)									

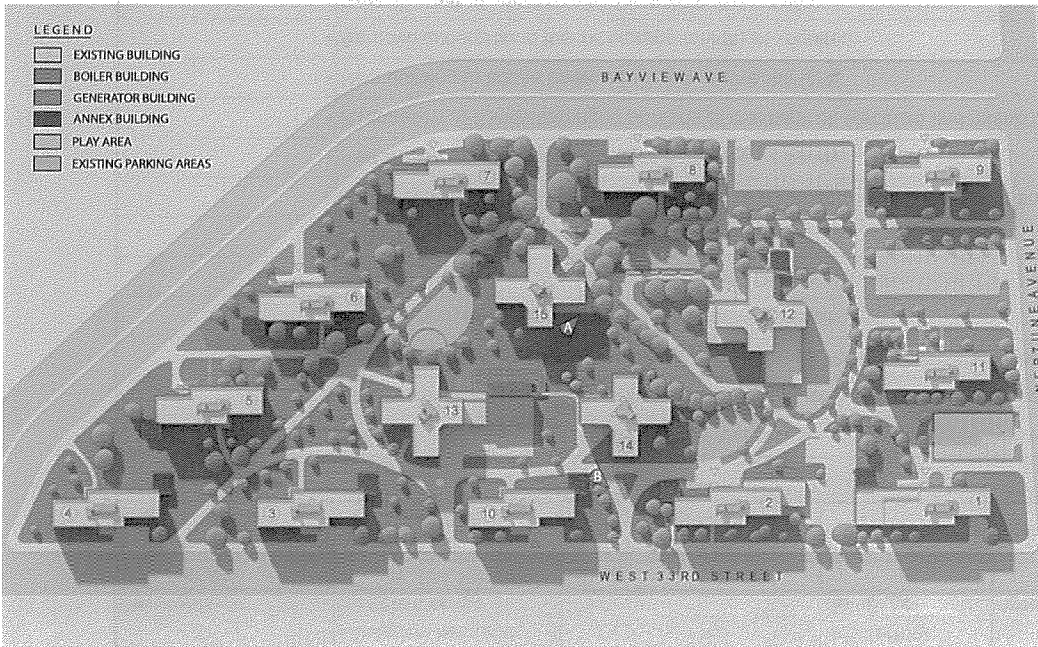
DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



CONCEPTUAL RENDERING
IMAGE A



CONCEPTUAL RENDERING
IMAGE B



DISASTER RECOVERY

GRAVESEND HOUSES

BROOKLYN, NY

Conceptual



ENGINEERS, ARCHITECTS & LAND SURVEYORS, PC
40 WALL STREET, 11th FLOOR
NEW YORK, NY 10005

Tel: 212.747.1997

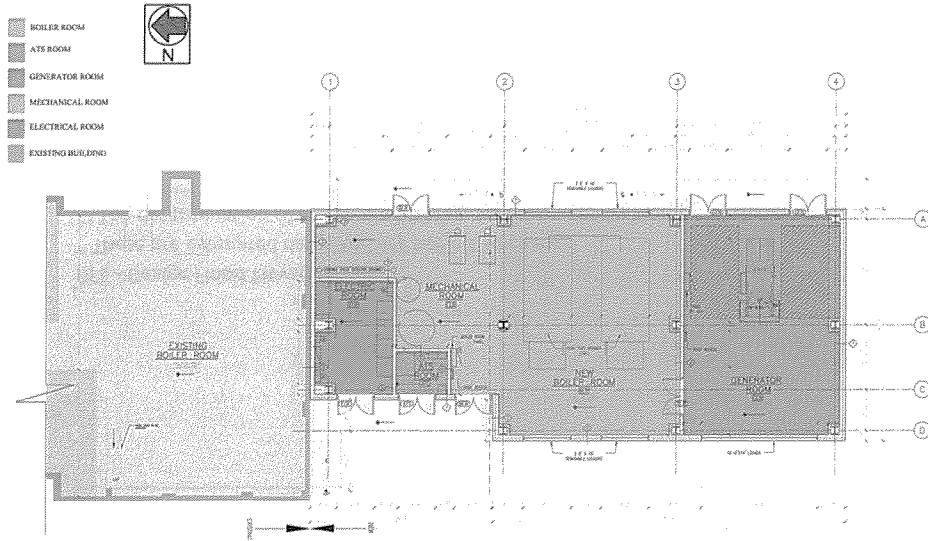
Fax: 212.747.1947

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
GRAVESEND	\$ 174,737,860	Total #	15	634	1,460	12.41	8	46	23	47
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing etc) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Repair and restore Lobby areas, store fronts, Ramps. Partial architectural restoration of community center including kitchen restoration									
	▪ Abate & restore building crawl spaces at damaged buildings									
	▪ New electrical rooms to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Renovation of first floor apartments damaged by Sandy									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ New building to house boiler equipment above the DFE									
	▪ Remove underground fuel oil storage tank(s) as required.									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV and Layered Access Systems									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Installation of stairwell lighting									
	▪ Dry flood proofing above DFE to protect building envelope in flood prone areas									

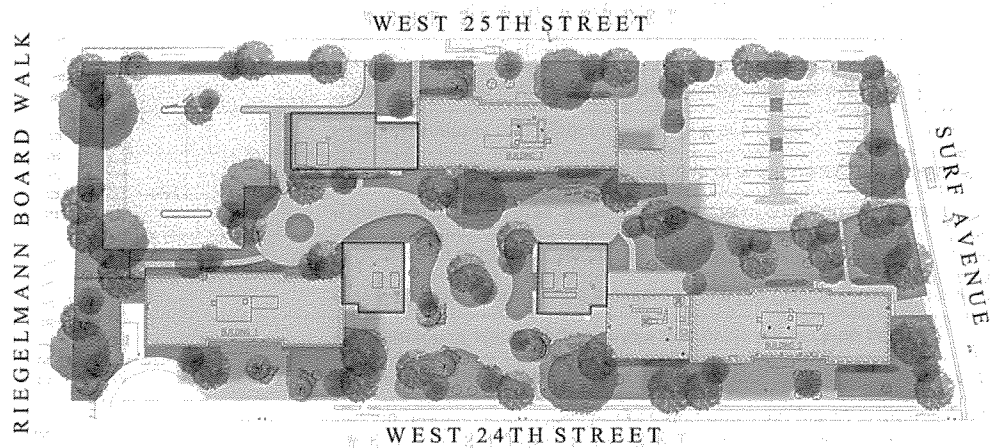
DFE - Design Flood Elevation

* These are estimated dates and are subject to change

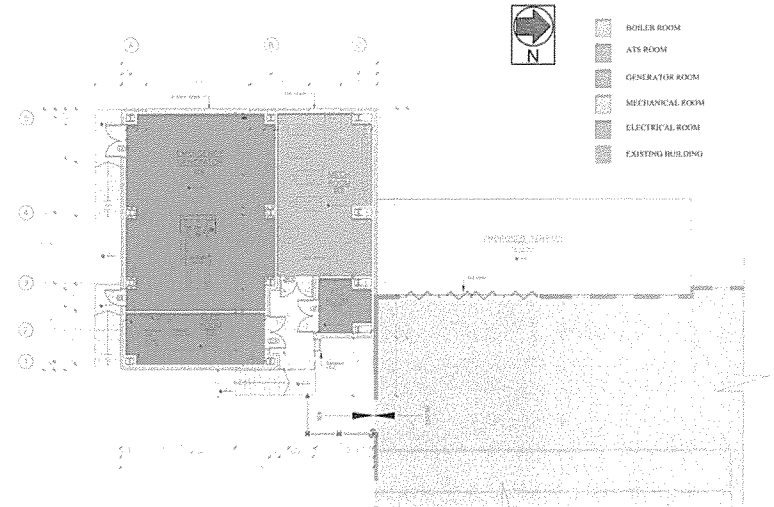
**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



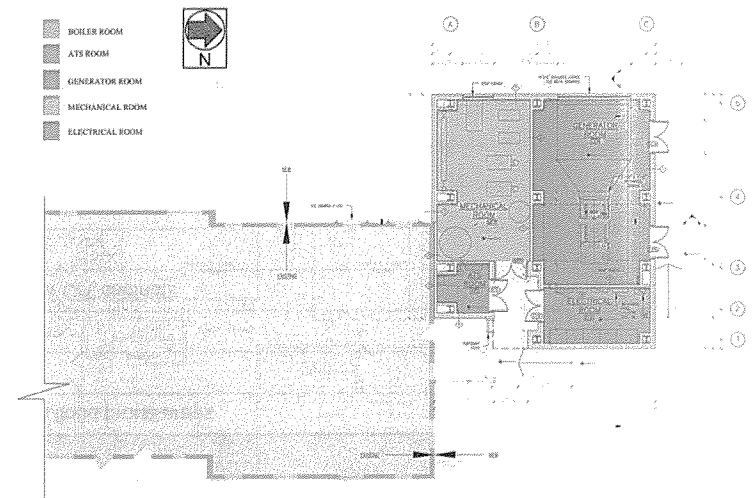
4 Building 3
First Floor Plan
Scale: 1/16" = 1'-0"



1 Site Plan
Scale: 1/64" = 1'-0"



3 Building 2
First Floor Plan
Scale: 1/16" = 1'-0"



2 Building 1
First Floor Plan
Scale: 1/16" = 1'-0"



CAPITAL PROJECTS
DIVISION
DISASTER RECOVERY

HABER HOUSES
BROOKLYN, NY

Conceptual

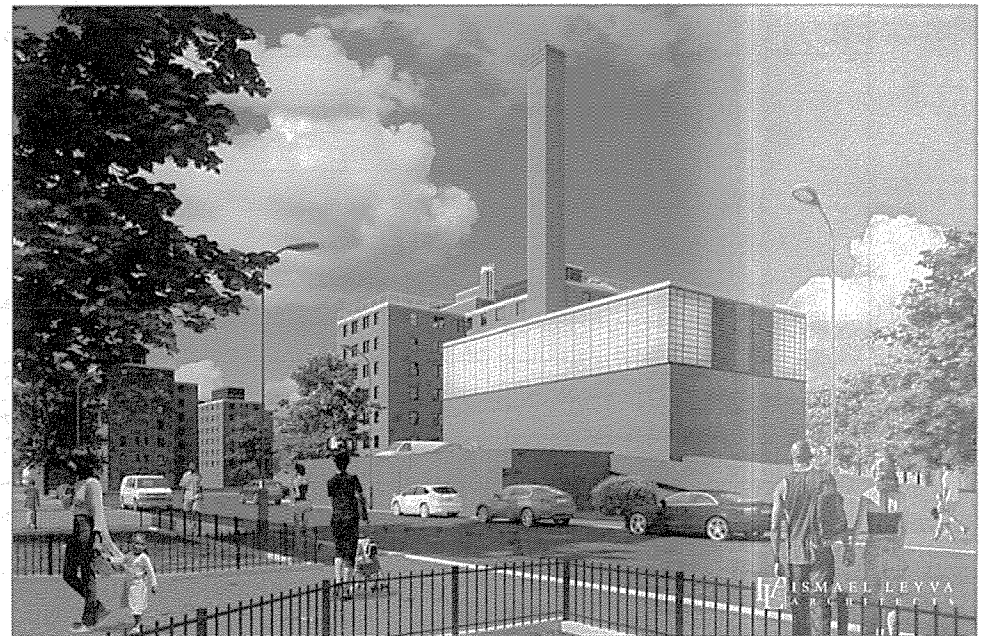
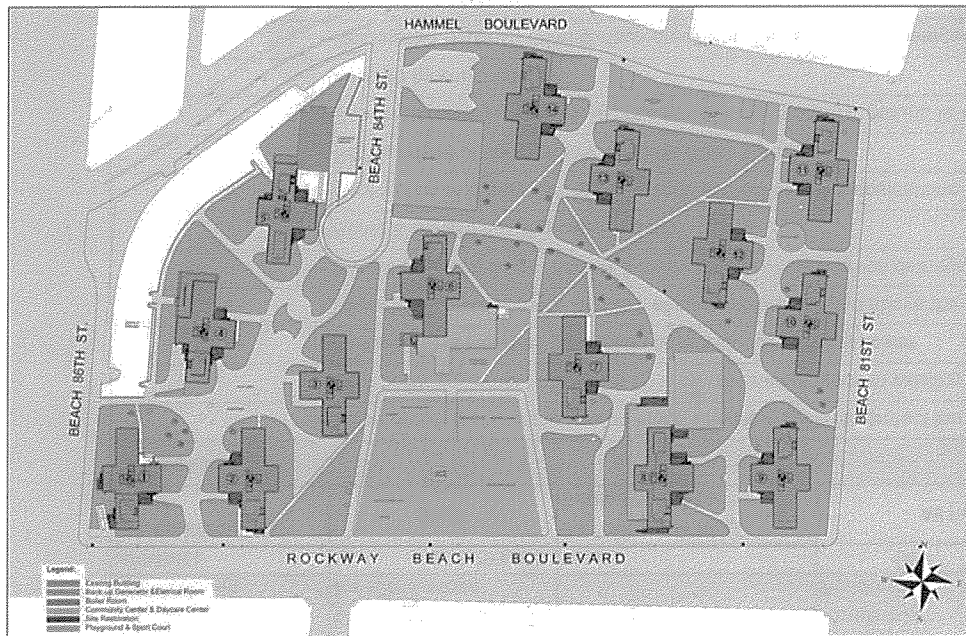
PURCELL
ARCHITECTS PC
5 WEST 37th Street, Suite 1102
NEW YORK, NEW YORK 10018,
t. (212) 921 - 1177

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
HABER	\$ 48,435,000	Total #	3	380	445	3.09	8	46	23	47
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Flood proofing above the Design Flood Elevation (DFE) to protect the building envelope in flood prone areas									
	▪ New annex building to house boiler equipment above the Design Flood Elevation (DFE)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ New electrical annex to be elevated above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Renovation of Senior Center									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may									
	▪ be affected by construction									
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Full roof replacement									
	▪ CCTV and Layered Access Systems (LAC)									
	▪									
	▪									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



HAMMEL HOUSES Queens, NY CAPITAL PROJECT DIVISION - DISASTER RECOVERY Conceptual

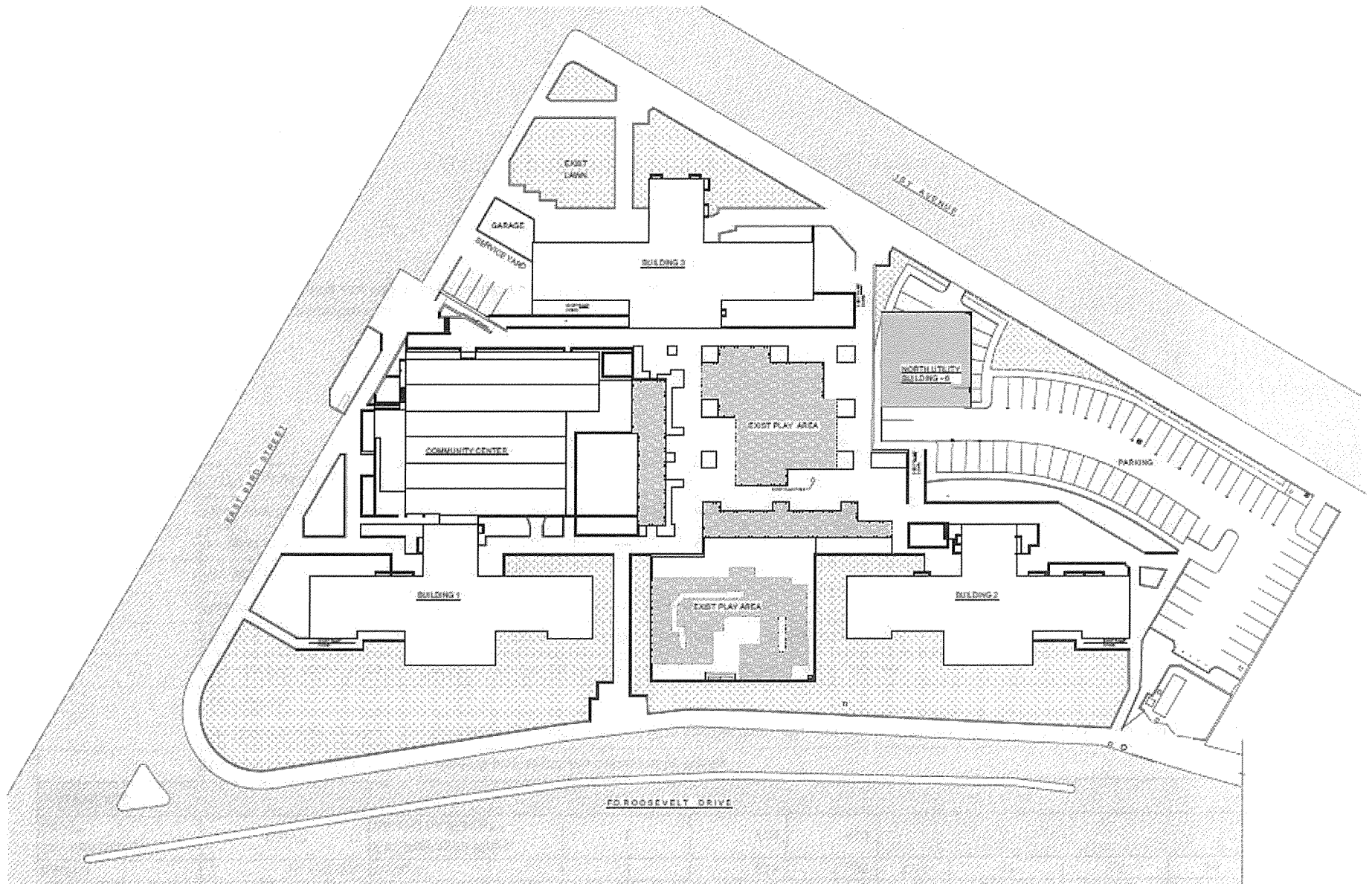


							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
HAMMEL	\$ 178,793,000	Total #	14	711	1,746	14.16	5	31	10	31
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Flood proofing above the Design Flood Elevation (DFE) to protect the building envelope in flood prone areas									
	▪ New boiler equipment above the DFE on elevated platform in existing boiler building									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ New electrical equipment and C/T cabinets to be elevated above the Design Flood Elevation (DFE)									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Abate & restore building crawl spaces									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Full roof replacement									
	▪ CCTV and Layered Access Systems (LAC)									
	▪									
	▪									
	▪									
	▪									
	▪									
	▪									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

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CAPITAL PROJECTS
DIVISION
RECOVERY AND RESILIENCE

ISAACS HOUSES

Manhattan, NY
Conceptual

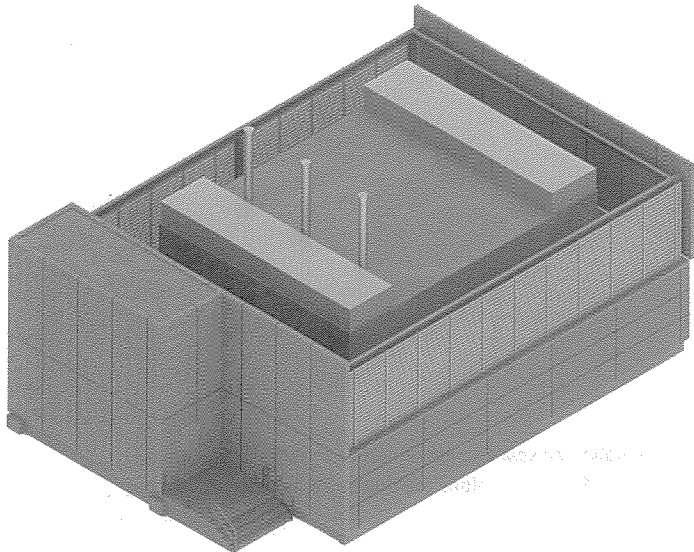


							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
ISAACS	\$ 16,459,000	Total #	3	635	1,238	3.49	12	68	29	5
Est. Construction Start*	Q3-17	# of Damaged Bldgs. funded by FEMA**	1	214	413					
FEMA 428 Scope										
	▪ Restoration of playground surface areas & play structures damaged by Sandy									
	▪ Site Restoration(sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ New electrical rooms to be elevated above the Design Flood Elevation(DFE) to house new C/T cabinets									
	▪ Repair & restore architectural features doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical & plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ Installation of stand-by generators to provide full back-up power at damaged buildings									
	▪ Flood proofing above the Design Flood Elevation(DFE) to protect the building envelope in flood prone areas									
	▪ CCTV & Layered Access Systems(LAC)									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

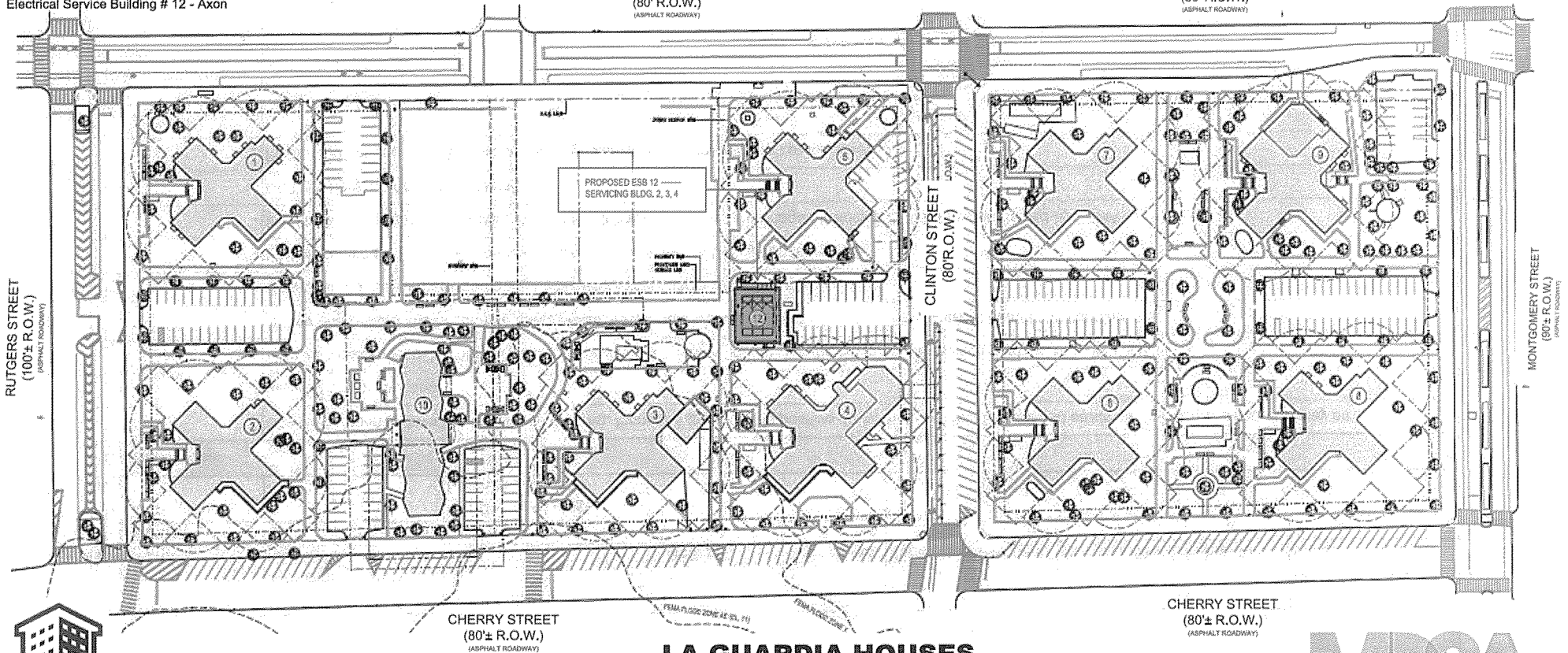
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Electrical Service Building # 12 - Axon

MADISON STREET
(80' R.O.W.)
(ASPHALT ROADWAY)

MADISON STREET
(80' R.O.W.)
(ASPHALT ROADWAY)



RUTGERS STREET
(100'± R.O.W.)
(ASPHALT ROADWAY)

CLINTON STREET
(80' R.O.W.)
(ASPHALT ROADWAY)

MONTGOMERY STREET
(90'± R.O.W.)
(ASPHALT ROADWAY)

CHERRY STREET
(80'± R.O.W.)
(ASPHALT ROADWAY)

CHERRY STREET
(80'± R.O.W.)
(ASPHALT ROADWAY)

LA GUARDIA HOUSES
MANHATTAN, NY
CONCEPTUAL



CAPITAL PROJECTS
DIVISION
RECOVERY AND RESILIENCE



							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
LA GUARDIA	\$ 28,297,000	Total #	10	1,240	2,712	11.38	7	65	26	1
Est. Construction Start*	Q1-17	# of Damaged Bldgs. funded by FEMA**	6	727	1,685					
FEMA 428 Scope										
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ New electrical room to be located above the Design Flood Elevation(DFE) to house new C/T cabinets for funded buildings only									
	▪ Repair and restore architectural features (walls, floors, doors, frame & hardware) of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Partial replacement of underground conduits & site lighting (in Sandy flooded areas)									
	▪ Installation of stand-by generators to provide full back-up power for damaged buildings 2, 3 & 4 as determined by FEMA									
	▪ CCTV & Layered Access Systems(LAC)									
	▪ Flood proofing above DFE to protect damaged building envelope in flood prone areas									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

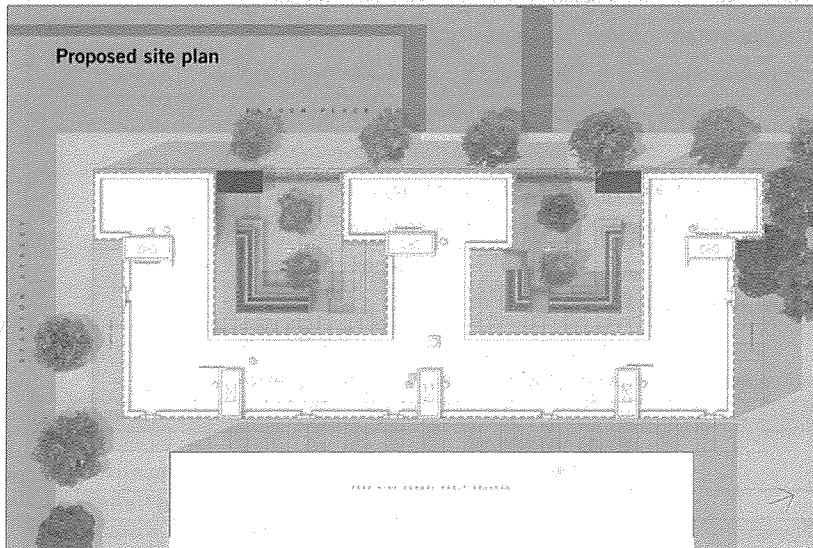
**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



VIEW FROM THE ELEVATED PLATFORM



VIEW OF THE NORTH COURTYARD



Proposed site plan



VIEW FROM THE STREET BARUCH PLACE

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
LAVANBURG HOMES	\$ 22,932,000	Total #	1	95	301	0.53	7	74	26	2
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Site Restoration(sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ New electrical rooms to be elevated above the Design Flood Elevation(DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical & plumbing systems									
	▪ Remove underground fuel oil storage tank(s)									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV & Layered Access Systems(LAC) in coordination with the Henry Street Settlement(HSS)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Flood proofing above the Design Flood Elevation(DFE) to protect the building envelope in flood prone areas									

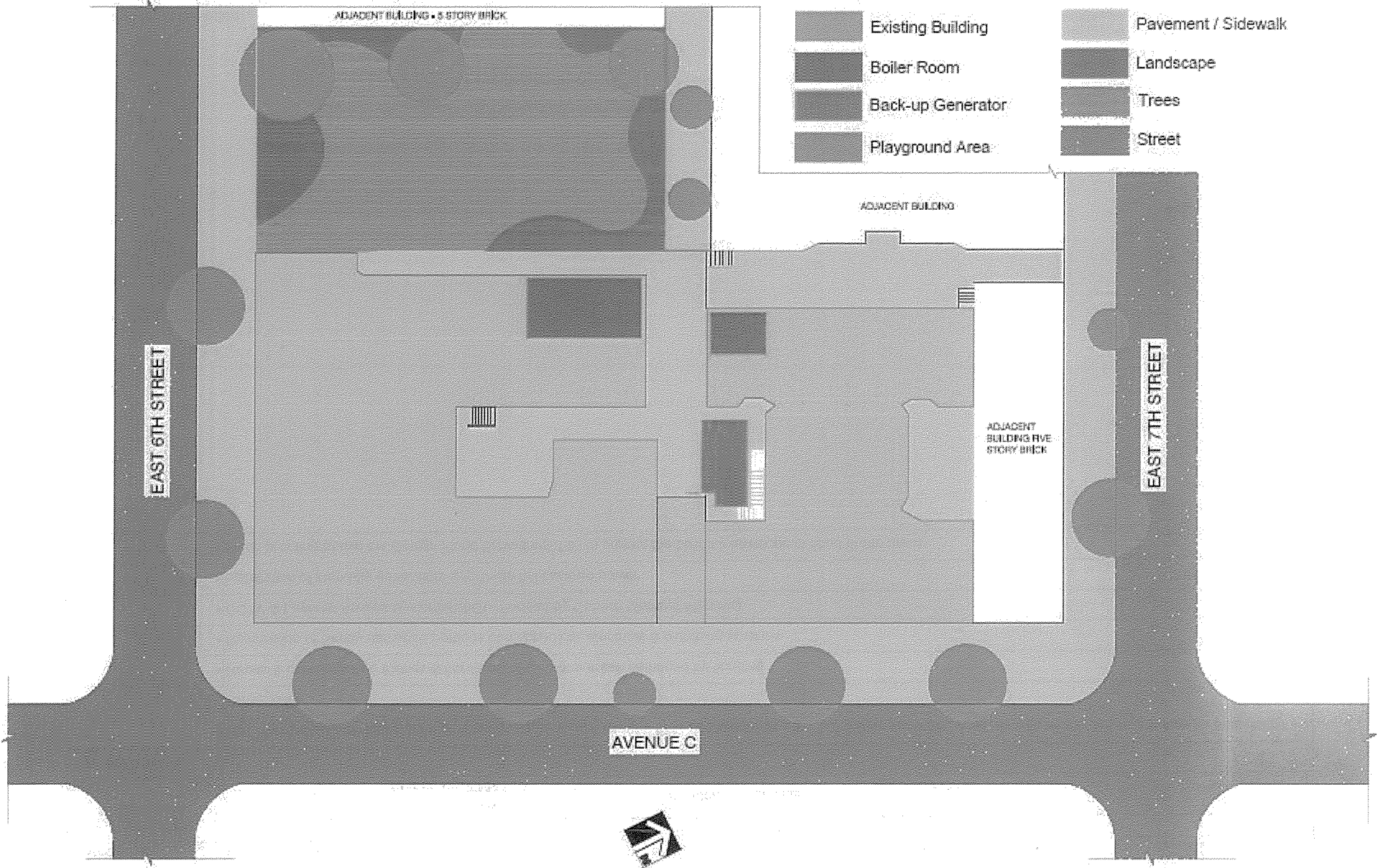
DFE - Design Flood Elevation

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**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA

LEGEND:

	Existing Building		Pavement / Sidewalk
	Boiler Room		Landscape
	Back-up Generator		Trees
	Playground Area		Street



CAPITAL PROJECTS
DIVISION
RECOVERY AND RESILIENCE

LOWER EAST SIDE
Manhattan, NY
Conceptual



NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
LOWER EAST SIDE	\$ 5,226,427	Total #	2	54	119	0.43	7	74	26	2
Est. Construction Start*	Q2-15	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Site Restoration(sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical & plumbing systems									
	▪ CCTV & Layered Access Systems(LAC) - Funded by Council Member Mendez)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Flood proofing above the Design Flood Elevation(DFE) to protect the building envelope in flood prone areas									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



METRO NORTH PLAZA

New York, NY

CAPITAL PROJECT DIVISION - DISASTER RECOVERY

Conceptual



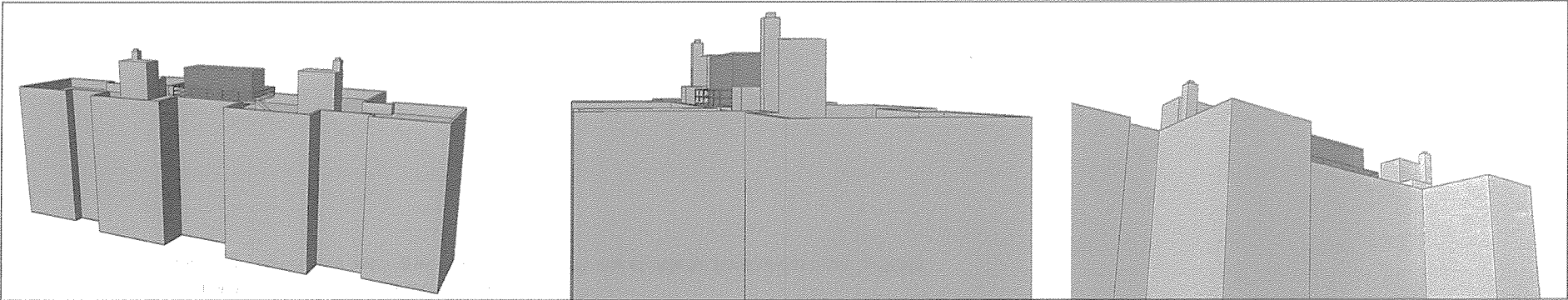
							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
METRO NORTH PLAZA	\$ 39,448,000	Total #	3	271	617	2.29	13	68	29	8
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Flood proofing above the Design Flood Elevation (DFE) to protect the building envelope in flood prone areas									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ New building to house boiler equipment above the Design Flood Elevation (DFE)									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ New electrical annex to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Replacement of underground conduits & site lighting									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪									
	▪									
	▪									
	▪									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

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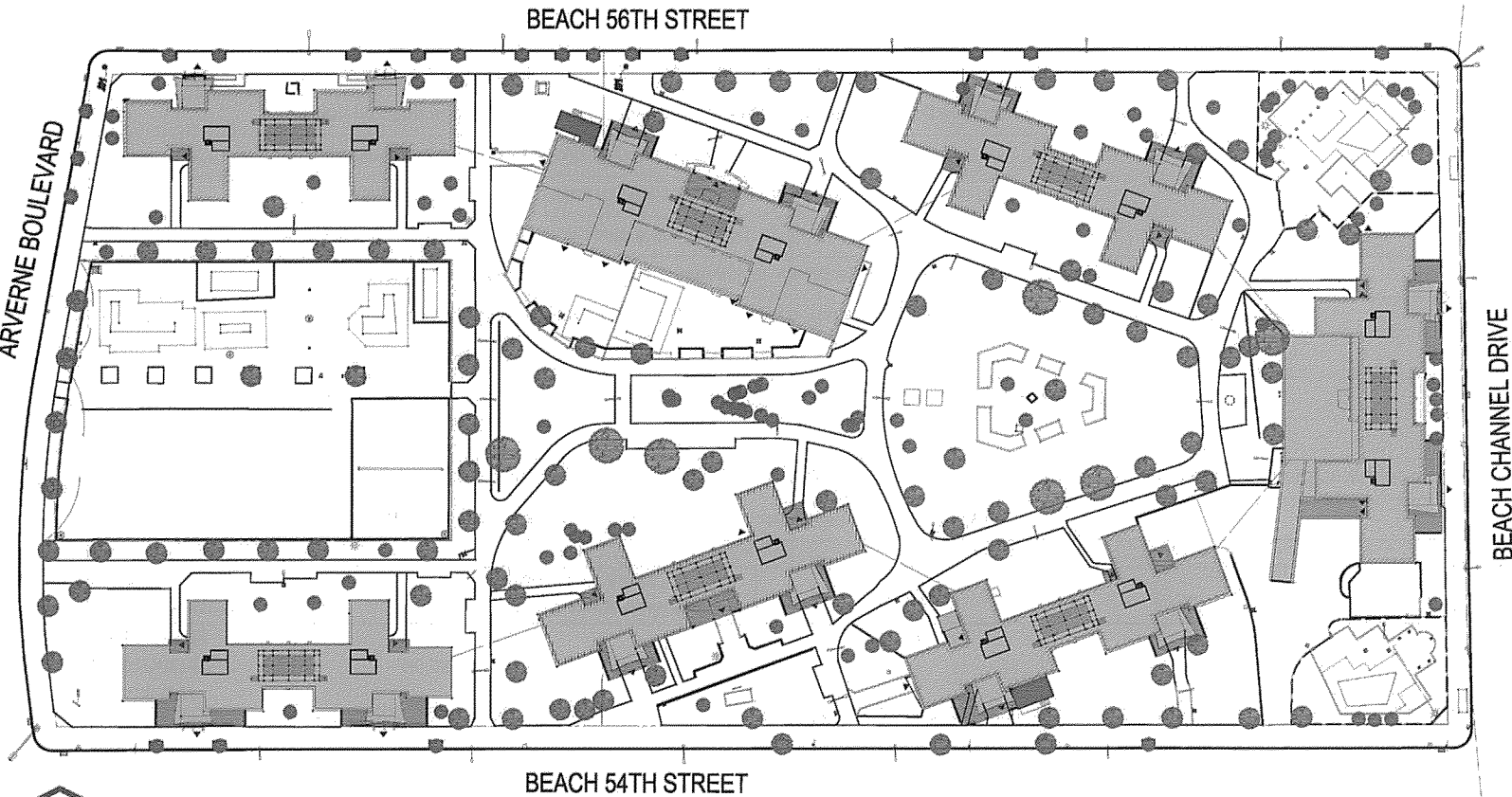
VIEWS OF ROOFTOP GENERATORS



BIRDSEYE

VIEW FROM ADJACENT BUILDING

VIEW FROM STREET LEVEL



LEGEND:

- EXISTING BUILDING
- ROOFTOP BACK-UP GENERATORS
- ELECTRIC SERVICE BUILDING
- RENOVATED BUILDING
- ENTRY / FLOOD BARRIER



CAPITAL PROJECTS
 DIVISION
 RECOVERY AND RESILIENCE

OCEAN BAY - OCEANSIDE
 QUEENS, NY
 CONCEPTUAL



							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
OCEAN BAY APARTMENTS (OCEANSIDE)	\$ 66,983,000	Total #	7	417	852	8.13	5	31	10	31
Est. Construction Start*	Q2-16	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of playground surface areas and play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ New electrical rooms to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore architectural features(walls, floors, doors, frames & hardware) of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Upgrade CCTV & Layered Access Systems(LAC)									
	▪ Flood proofing above Design Flood Elevation (DFE) to protect the building envelope in flood prone areas									
	▪ Restoration and rehabilitation of the Community Center									

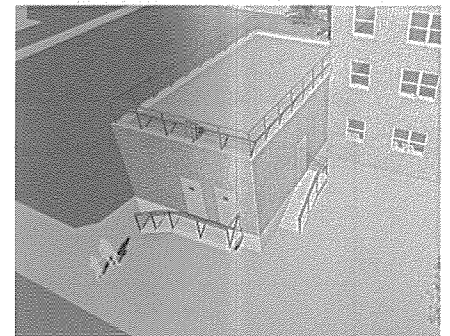
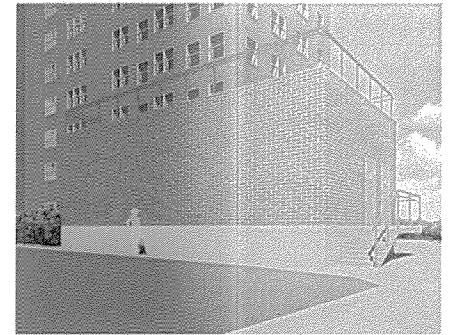
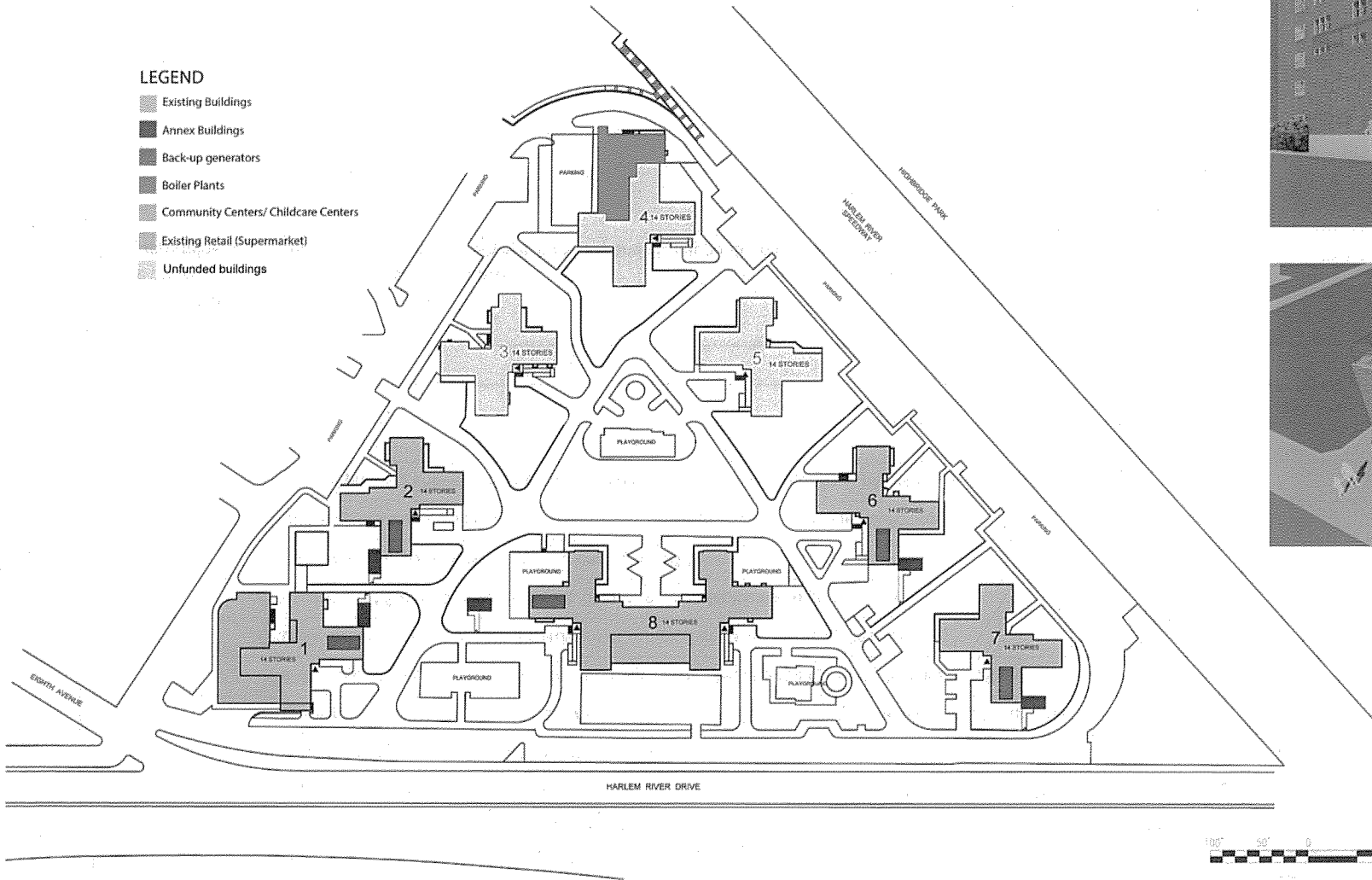
DFE - Design Flood Elevation

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LEGEND

- Existing Buildings
- Annex Buildings
- Back-up generators
- Boiler Plants
- Community Centers/ Childcare Centers
- Existing Retail (Supermarket)
- Unfunded buildings



SITE PLAN



CAPITAL PROJECTS
DIVISION
DISASTER RECOVERY

RALPH J. RANGEL HOUSES Manhattan, NY Conceptual



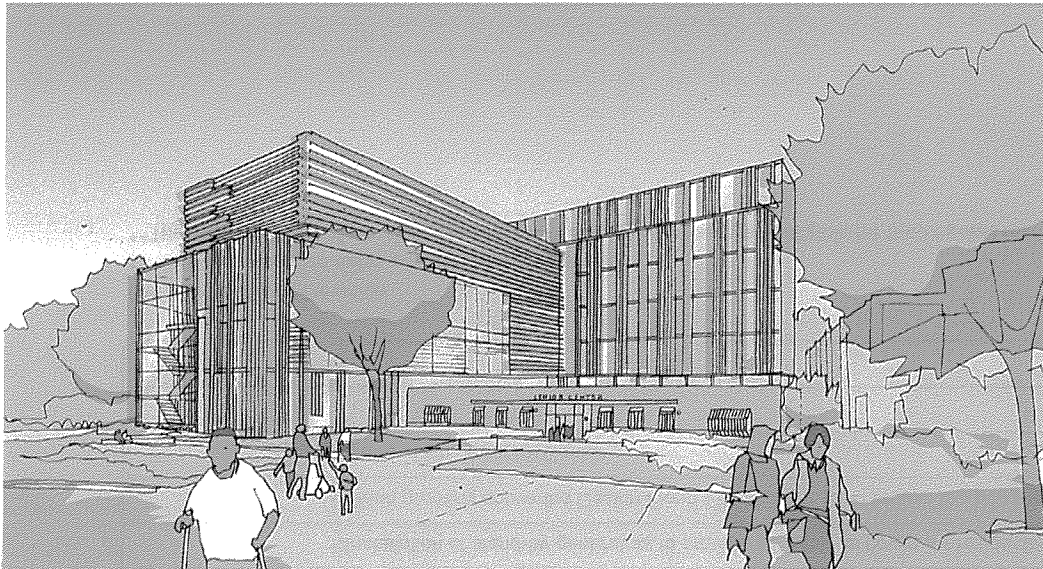
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111 Broadway, New York, NY 10006

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
RANGEL	\$ 42,281,658	Total #	8	983	2,299	10.92	13	71	30	9
Est. Construction Start*	Q1-17	# of Damaged Bldgs. funded by FEMA**	5	647	1,508					
FEMA 428 Scope										
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Abate & restore building crawl spaces at damaged buildings									
	▪ New electrical rooms to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Partial Roof Replacement (Where generators will be installed) (existing roofing has been replaced within past 5 years)									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ CCTV and Layered Access Systems at damaged buildings									
	▪ Installation of stand-by generators to provide full back-up power for damaged buildings									
	▪ Dry flood proofing above DFE to protect damaged building envelope in flood prone areas									

DFE - Design Flood Elevation

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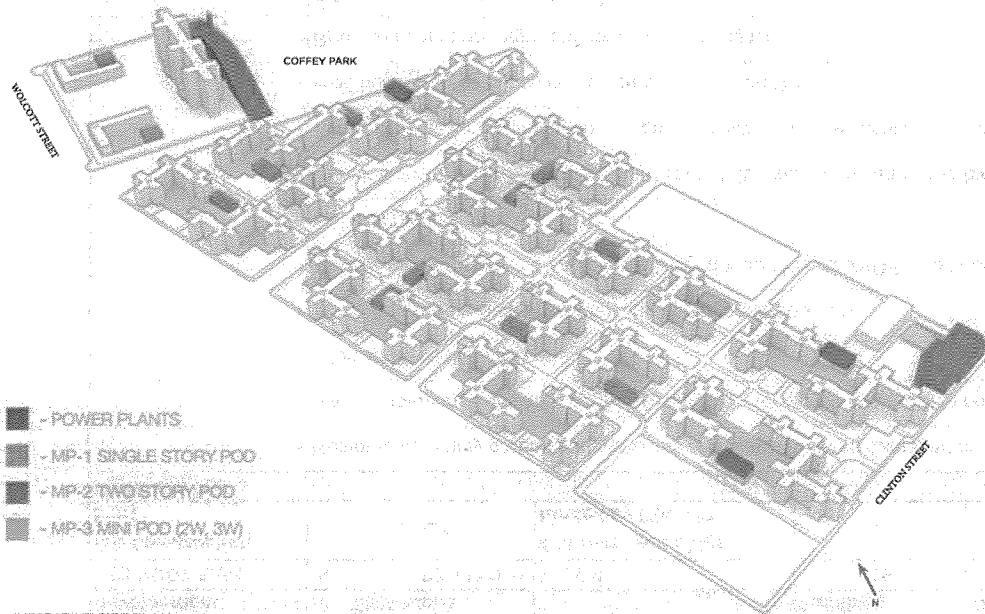
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EAST DISTRICT MEP PLANT WITH ADDITIONAL MULTIPURPOSE ROOM



INDICATIVE UTILITY POD



INDICATIVE SITE PLAN



INDICATIVE SITE RESTORATION



CAPITAL PROJECTS DIVISION
DISASTER RECOVERY

RED HOOK HOUSES

BROOKLYN, NEW YORK

* PROJECT IS AT CONCEPTUAL STAGE - DETAILS MAY CHANGE IN FINAL DESIGN



NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
RED HOOK EAST	\$ 197,483,000	Total #	16	1,408	2,969	19.65	7	51	25	38
Est. Construction Start*	Q3-17	# of Damaged Bldgs. funded by FEMA**	14	1,288	2,699					
FEMA 428 Scope										
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Abate & restore building crawl spaces at damaged buildings									
	▪ New electrical rooms to be above the Design Flood Elevation(DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ New building to house boiler equipment above the DFE									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV & Layered Access Systems(LAC)									
	▪ Installation of stand-by generators to provide full back-up power for residential buildings									
	▪ Flood proofing above the Design Flood Elevation(DFE) to protect the building envelope in flood prone areas									
	▪ Restoration of Senior Center									

DFE - Design Flood Elevation

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NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

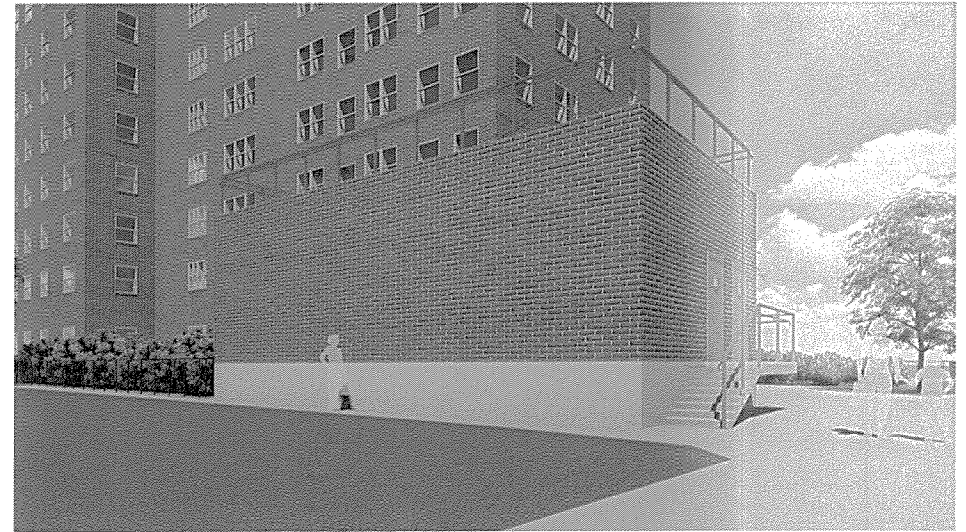
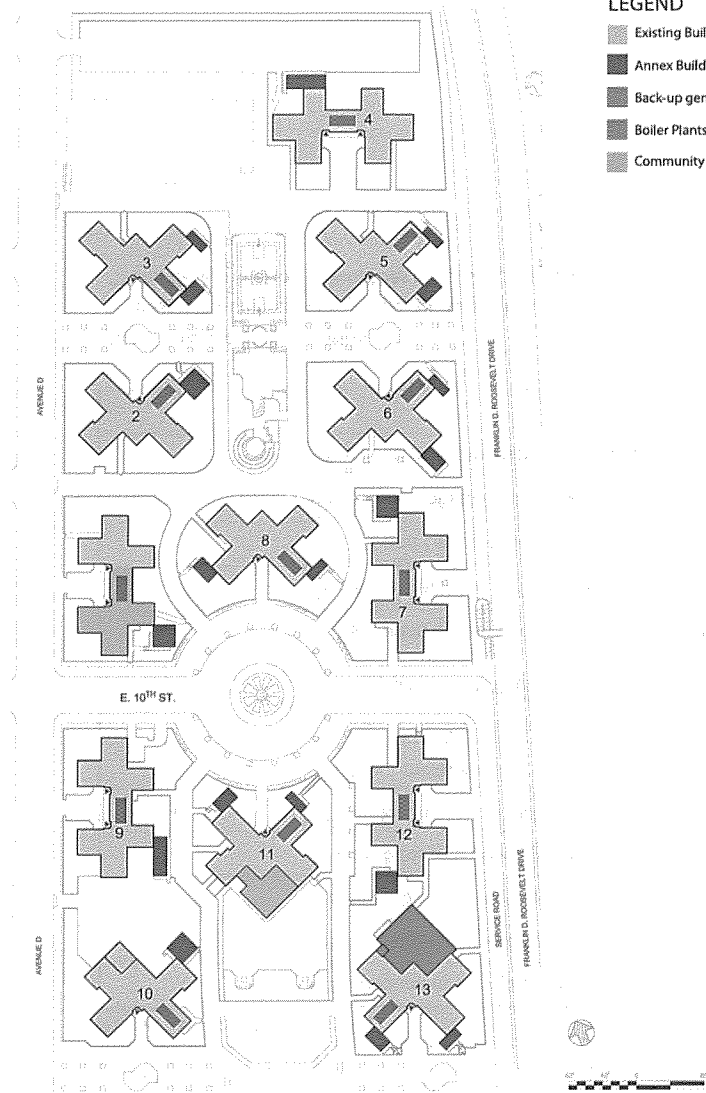
Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
RED HOOK WEST	\$ 240,730,000	Total #	14	1,470	3,248	19.32	7	51	25	38
Est. Construction Start*	Q3-17	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Abate & restore building crawl spaces at damaged buildings									
	▪ New electrical rooms to be above the Design Flood Elevation(DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ New building to house boiler equipment above the DFE									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV & Layered Access Systems(LAC)									
	▪ Installation of stand-by generators to provide full back-up power for residential buildings									
	▪ Flood proofing above the Design Flood Elevation(DFE) to protect the building envelope in flood prone areas									

DFE - Design Flood Elevation

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CAPITAL PROJECTS
DIVISION
DISASTER RECOVERY

JACOB RIIS HOUSES
Manhattan, NY
Conceptual



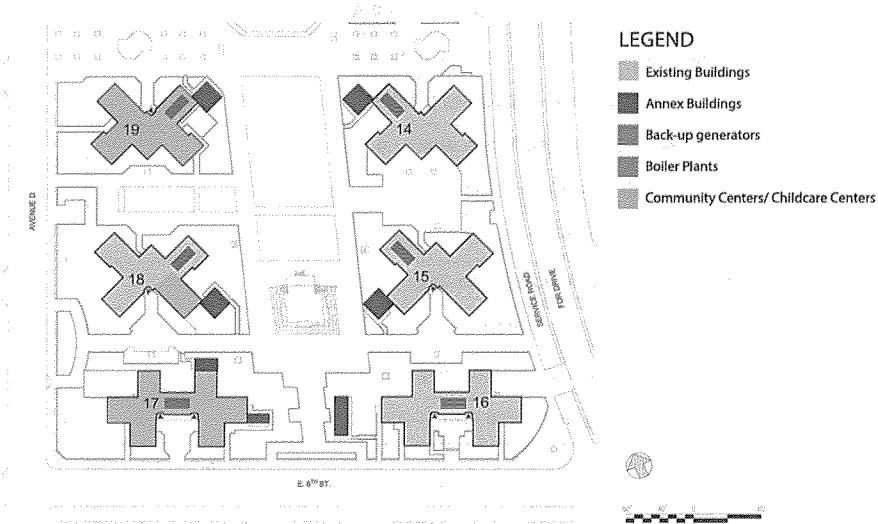
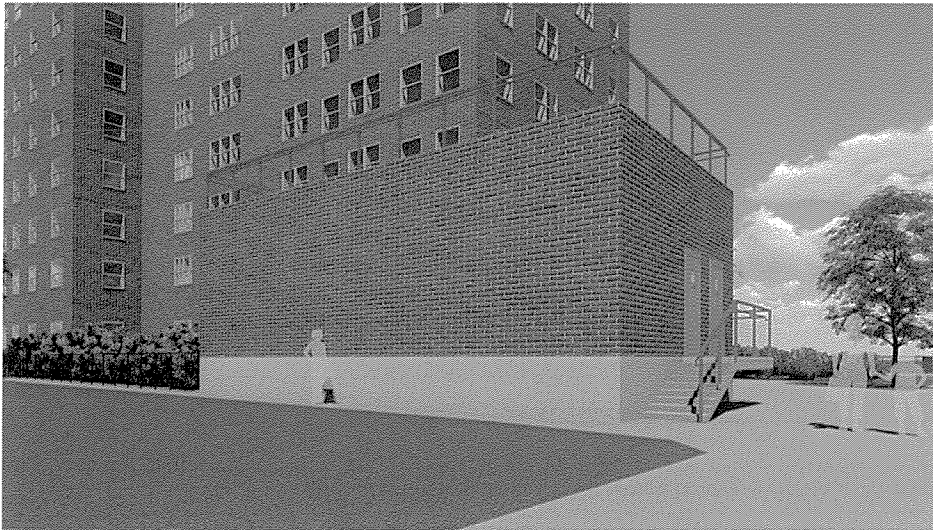
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							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
RIIS	\$ 124,757,364	Total #	13	1,191	2,700	11.73	7	74	27	2
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Abate & restore building crawl spaces									
	▪ New electrical rooms to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Renovation of first floor apartments damaged by Sandy									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing									
	▪ systems Replacement of underground conduits & site lighting									
	▪ CCTV and Layered Access Systems									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Dry flood proofing above DFE to protect building envelope in flood prone areas									

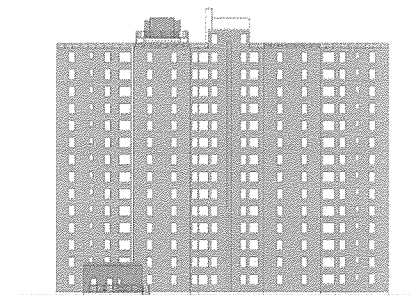
DFE - Design Flood Elevation

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**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



SITE PLAN



ELEVATION (TYPICAL)



CAPITAL PROJECTS
DIVISION
DISASTER RECOVERY

JACOB RIIS 2 HOUSES Manhattan, NY Conceptual

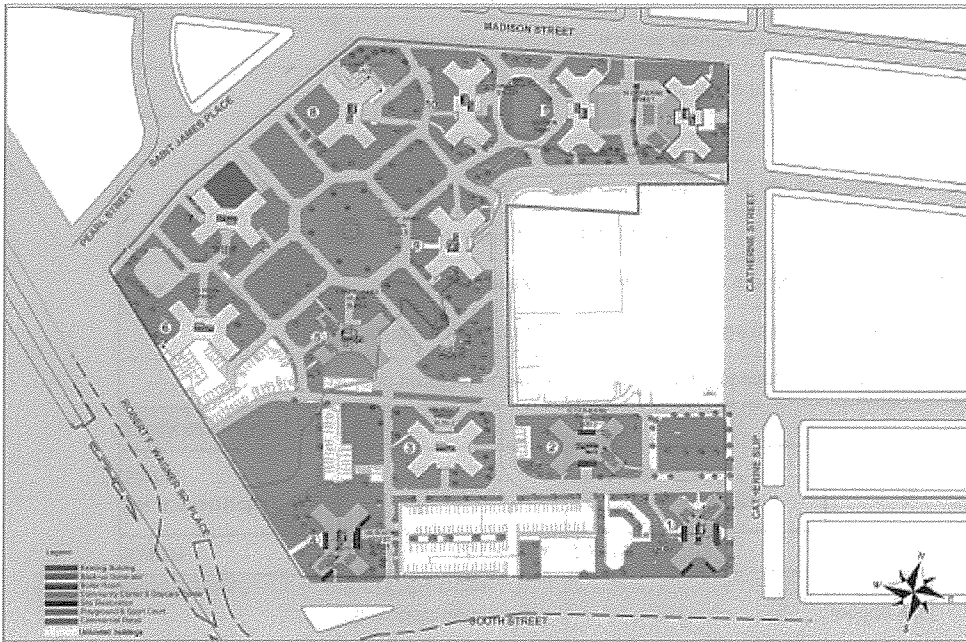
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111 Broadway, New York, NY 10006

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
RIIS II	\$ 50,919,265	Total #	6	577	1,288	5.94	7	74	27	2
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Abate & restore building crawl spaces at damaged buildings									
	▪ New electrical rooms to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Partial Roof Replacement (where generators will be installed) (Existing roods were replacened in past 5 years)									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV and Layered Access Systems									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Dry flood proofing above DFE to protect building envelope in flood prone areas									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

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GOVERNOR ALFRED E. SMITH HOUSES

New York, NY

CAPITAL PROJECT DIVISION - DISASTER RECOVERY

Conceptual

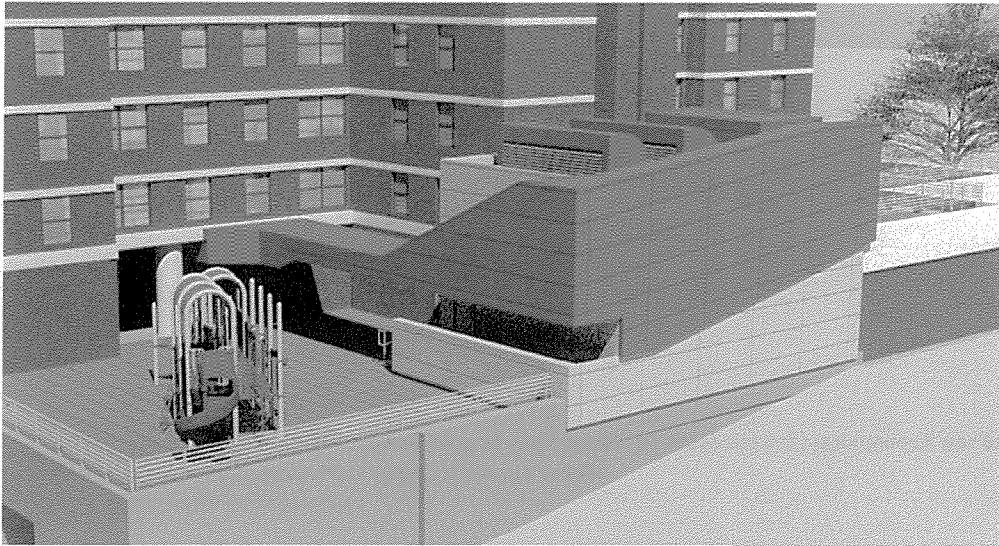


							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
SMITH	\$ 56,482,000	Total #	12	1,932	4,254	21.75	7	65	26	1
Est. Construction Start*	Q1-17	# of Damaged Bldgs. funded by FEMA**	4	659	1,503					
FEMA 428 Scope										
	▪ Flood proofing above the Design Flood Elevation (DFE) to protect the building envelope in flood prone areas									
	▪ Installation of stand-by generators to provide full back-up power at affected buildings									
	▪ New electrical annex to be elevated above the Design Flood Elevation (DFE) to house new C/T cabinets at affected buildings									
	▪ Full roof replacement at affected buildings									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc...) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ CCTV and Layered Access Systems (LAC)									
	▪									
	▪									
	▪									
	▪									

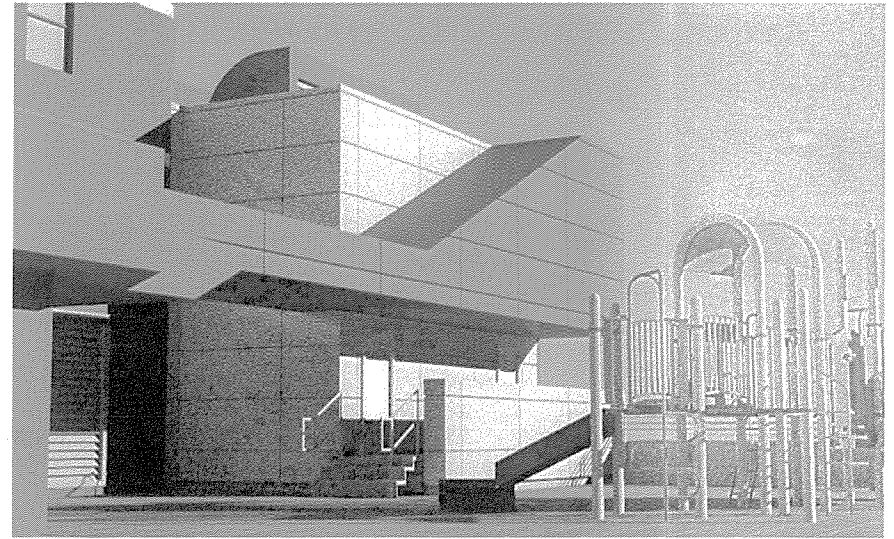
DFE - Design Flood Elevation

* These are estimated dates and are subject to change

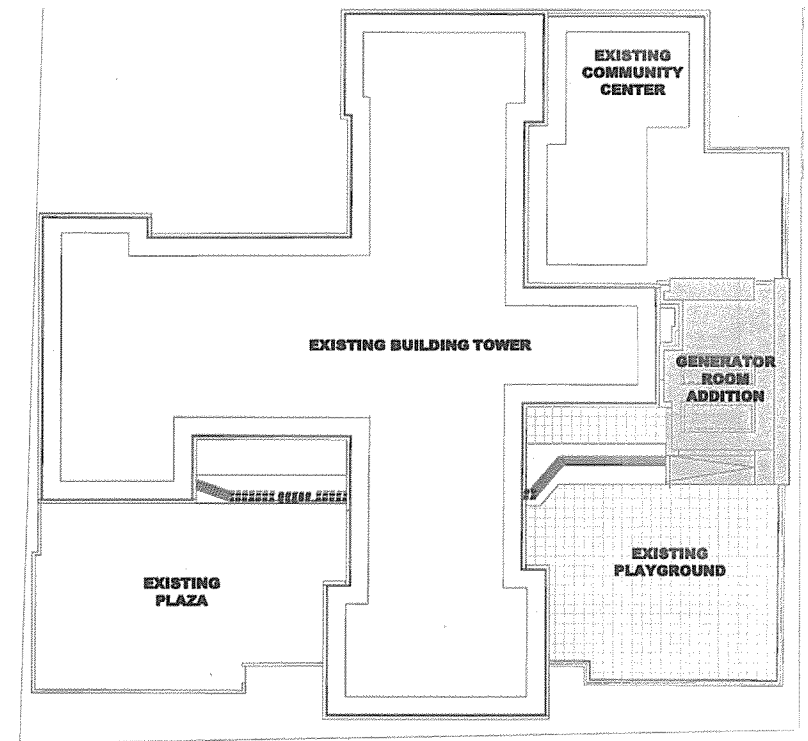
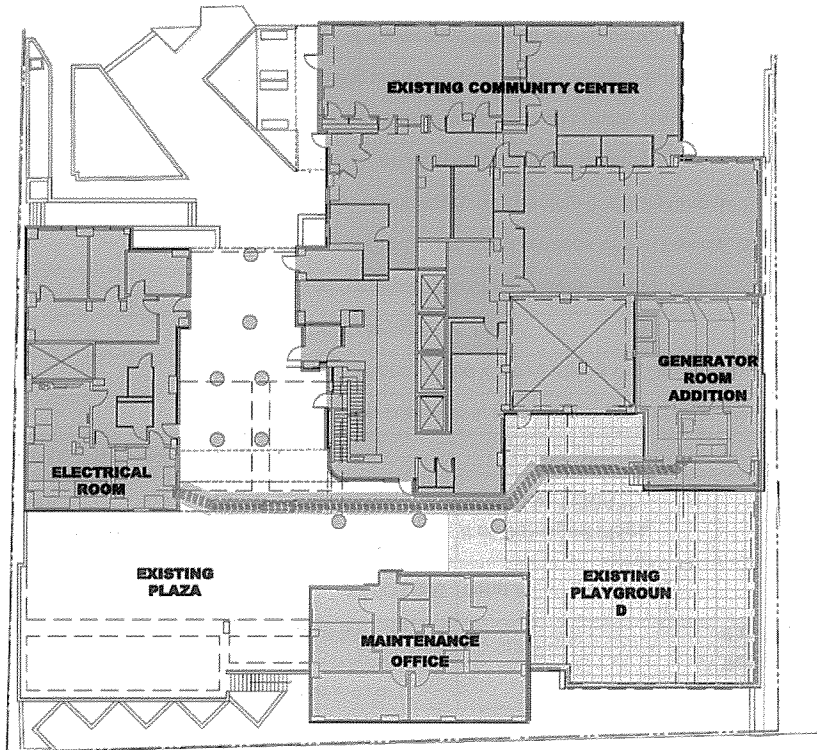
**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



SOUTHEAST VIEW - ELECTRIC SERVICE / GENERATOR ROOM ADDITION



SOUTHWEST VIEW - ELECTRIC SERVICE / GENERATOR ROOM ADDITION

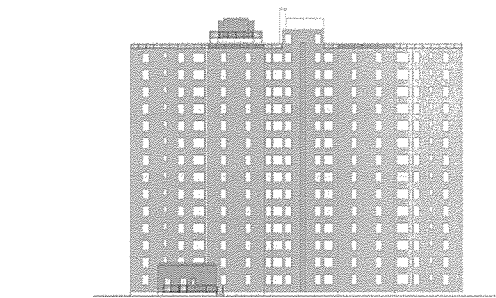
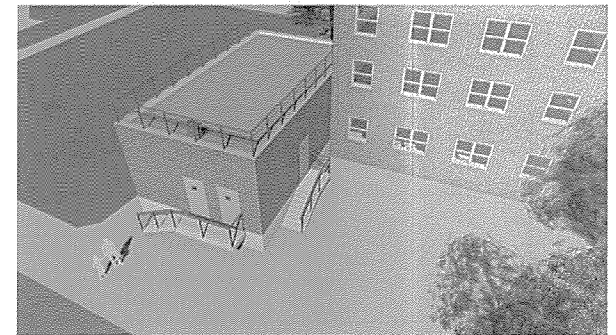
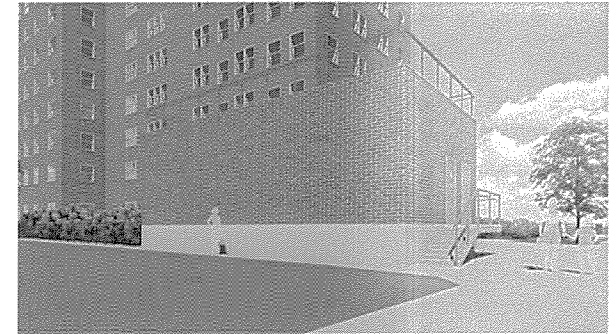
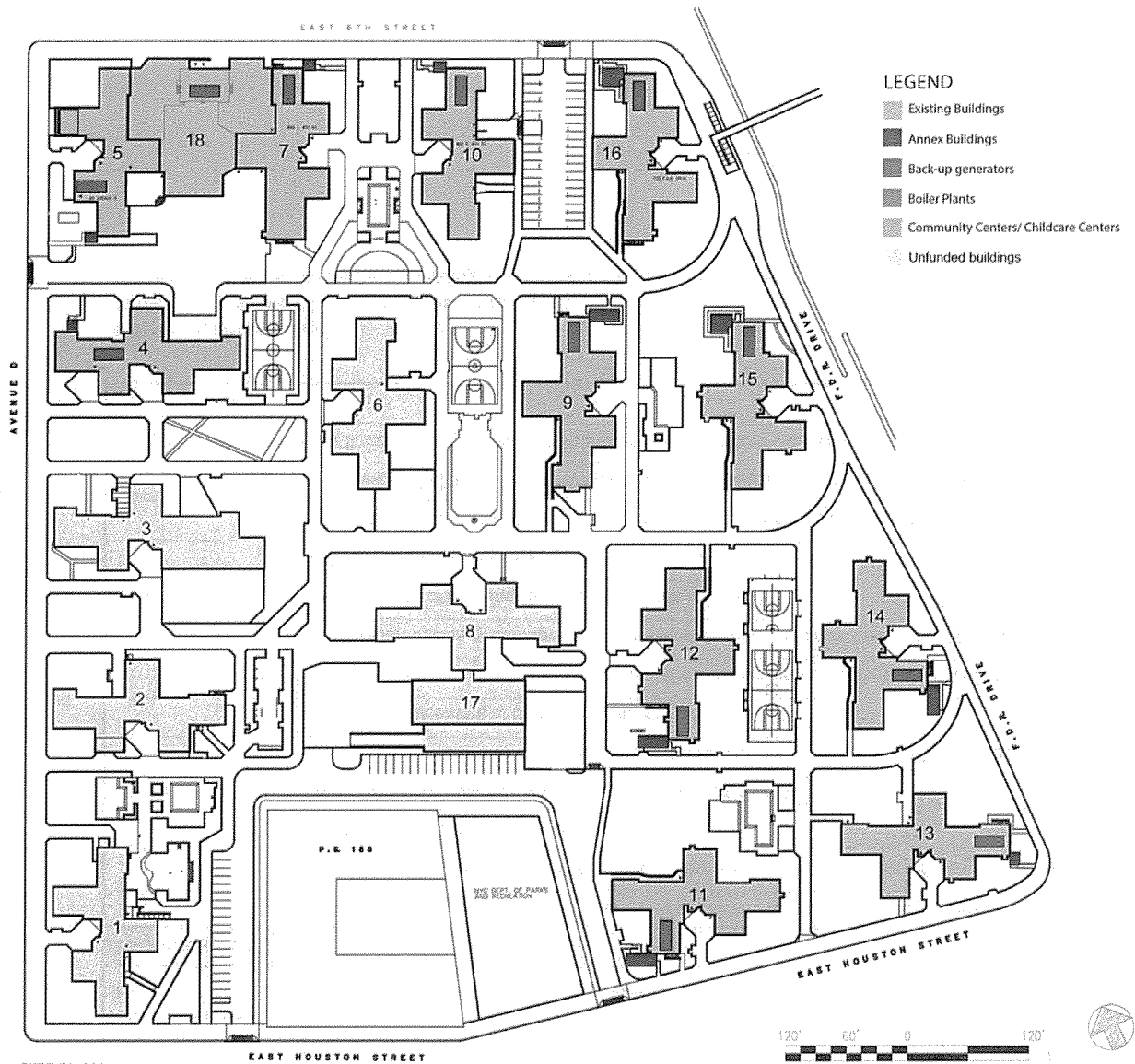


							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
TWO BRIDGES URA (SITE 7)	\$ 17,606,000	Total #	1	250	645	0.73	7	65	26	1
Est. Construction Start*	Q1-17	# of Damaged Bldgs. funded by FEMA**	All Residential Buildings							
FEMA 428 Scope										
	▪ Site Restoration (sidewalks, fencing and ground fill to positive drain, etc.) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ New electrical annex to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Full roof replacement									
	▪ Repair and restore architectural features (walls, floors) of common areas damaged by flooding. Replace doors, frame & hardware damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting (in Sandy flooded areas)									
	▪ Upgrade CCTV and Layered Access Systems									
	▪ Installation of stand-by generators to provide full back-up power									
	▪ Flood proofing above DFE to protect building envelope in flood prone areas									
	▪ Restoration of playground located above garage level affected by roof construction									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



ELEVATION (TYPICAL)



CAPITAL PROJECTS
DIVISION
DISASTER RECOVERY

LILLIAN WALD HOUSES

Manhattan, NY

Conceptual



LiRo Architects + Planners, P.C.
A LiRo Group Company
111 Broadway, New York, NY 10006

NEW YORK CITY HOUSING AUTHORITY
SANDY RECOVERY PROGRAM MANAGEMENT OFFICE

Sandy Recovery Program
Permanent Repairs

							Districts			
Development	Current estimated allocation necessary for FEMA scope		Residential Buildings	Apartments	Population	Acreage	Congressional	State Assembly	State Senate	City Council
WALD	\$ 118,739,308	Total #	18	1,860	4,111	16.46	7	74	26	2
Est. Construction Start*	2017	# of Damaged Bldgs. funded by FEMA**	12	1,276	2,848					
FEMA 428 Scope										
	▪ Restoration of play ground surface areas and play structures damaged by Sandy									
	▪ Site Restoration (sidewalks, asphalt resurfacing, fencing & ground fill to positive drain, etc) of Sandy damaged areas as well as any areas that may be affected by construction									
	▪ Abate & restore building crawl spaces at damaged buildings									
	▪ New electrical rooms to be located above the Design Flood Elevation (DFE) to house new C/T cabinets									
	▪ Full roof replacement at damaged buildings									
	▪ Repair & restore doors, frames & hardware of common areas damaged by flooding									
	▪ Restoration of Sandy damaged portions of mechanical, electrical and plumbing systems									
	▪ Replacement of underground conduits & site lighting									
	▪ CCTV and Layered Access Systems at damaged buildings									
	▪ Installation of stand-by generators to provide full back-up power for damaged buildings									
	▪ Installation of ADA Ramps for Buildings 9,11-16 including new entrances and lobbies for those buildings									
	▪ Dry flood proofing above DFE to protect damaged building envelope in flood prone areas									

DFE - Design Flood Elevation

* These are estimated dates and are subject to change

**The determination of whether a building was damaged by Sandy and eligible for funding was made by FEMA



RECOVERY — TO — RESILIENCY

NYCHA'S SUPERSTORM SANDY RECOVERY PROGRAM

FACT SHEET

A Look Back

The impact of Superstorm Sandy in October 2012 crippled much of New York City, including 10 percent of NYCHA's developments. Eighty thousand residents in more than 400 buildings in Brooklyn, Queens, Manhattan and Staten Island were significantly affected by the storm and many are still feeling the impact today. When the storm hit, 402 NYCHA buildings lost power—including elevator and trash compactor service. Three hundred and eighty-six buildings lost heat and hot water. Hundreds of trees at NYCHA developments were uprooted, sand piles 4-feet tall accumulated at basement doors, and contaminated saltwater destroyed boilers and electrical panels, underground electrical conduits, massive trash compactors and playgrounds. Vehicles piled in corners of parking lots and 30-foot long trash compactors were lifted and carried by the storm. NYCHA pumped tens of millions of gallons of water from electrical and gas meter rooms, boiler rooms and other basement spaces. More than 20 temporary boilers and approximately 100 generators were brought in to restore heat and electricity to NYCHA facilities in the days that followed.

Lasting Impact – Major & Less Severe Damage

- 219 buildings damaged
- 330 apartments impacted
- 60,000 residents affected
- 64 boilers either damaged or destroyed

PROGRESS

As the most costly and destructive disaster affecting NYCHA's developments and residents in last 80 years, the Authority's ability to build back better and stronger has been directly linked to the access and pace of recovery funding. This year, NYCHA has made more recovery progress than the two years prior and as the Authority moves from planning to construction to real impact, residents will soon see dollars put to work in their community.

FEMA 428 Funding Agreements	• Phase I: In July 2015, NYCHA and FEMA signed Letters of Understanding for nearly \$3 billion in funding under <u>FEMA's pilot 428 public assistance program</u> supporting recovery efforts at 33 developments. • Phase II: In September 2015, project worksheets which outline scope of work, projected timelines, and estimated funding for each development were finalized by NYCHA and FEMA. (development summaries and renderings are available on <u>NYCHA Sandy Recovery webpage</u>) Each project worksheet went through a set of FEMA approval queues (i.e.; environmental, historic preservations, insurance review) before funds could be obligated to New York State Department of Homeland Security and Emergency Services (DHSES). • Phase III: The funds were then obligated to DHSES and NYCHA signed a Memorandum of Understanding with DHSES to create a process for how the funding will flow to NYCHA. NYCHA is currently in the process of completing designs for these 33 developments and starting construction.
Procurement	• As of February 2017, project bids for recovery work at <u>East River, Wald Houses (Ramps), LaGuardia, Two Bridges, Campos Plaza II, Red Hook Roof Repairs (Phase I), Haber Houses, Carey Gardens, Gravesend Houses and Redfern,</u> have been issued. • Letter of Award has been issued and contractors have been selected in <u>Smith Houses, Rangel, Coney Island Houses, and Gowanus Houses</u> with work set to begin after obtaining permitting approvals. • Construction is anticipated to begin at all 33 developments in 2017.
Construction	• Construction is completed at <u>Lower East Side Rehab 5.</u> • Construction is underway at, <u>Astoria Houses, Coney Island Sites 4/5, Coney Island IB, Ocean Bay Apartments- Oceanside, Ocean Bay- Bayside (in coordination with RAD), and Carlton Manor,</u> to make repairs and construct systems to make the developments more resilient to



RECOVERY — TO — RESILIENCY

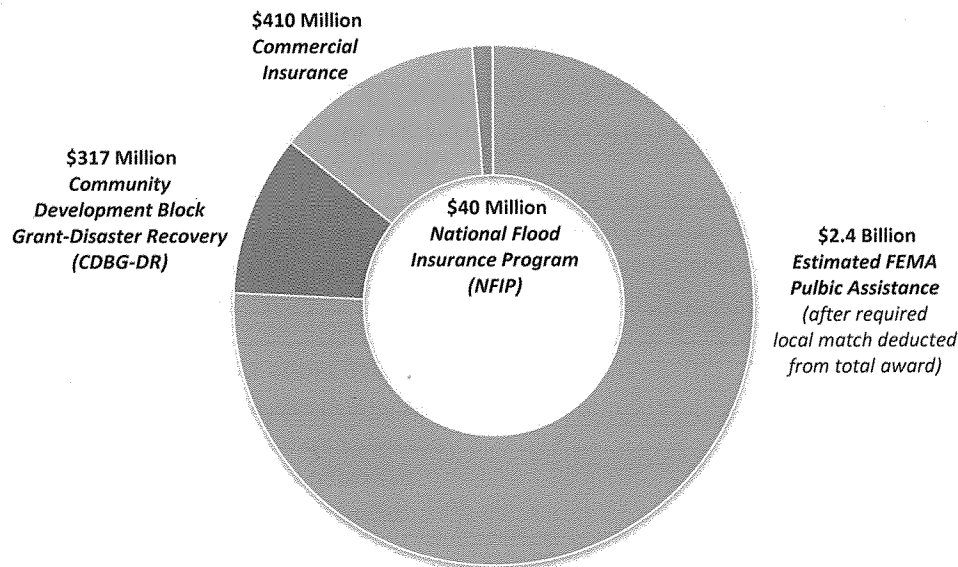
NYCHA'S SUPERSTORM SANDY RECOVERY PROGRAM

FACT SHEET

	future storms. A complete restoration of the Red Hook Senior Center started in October 2015. • 258 apartments at 13 developments have been restored and returned to rent rolls to-date • Prep work, such as boiler demolition, asbestos abatement, electrical feeder line replacement, and crawl space and boiler room restoration, in advance of permanent repairs is completed at all 23 developments.
Resident Hiring	• Over 220 Section Three residents have been hired on Sandy contracts to date. • The Sandy Section Three team continues to connect Sandy-impacted residents to construction-related trainings and education resources.

FUNDING

Over the past three years, NYCHA pursued every funding stream available to help in recovery and resiliency efforts. FEMA Public Assistance flows through the state to NYCHA and HUD Community Development Block Grant-Disaster Recovery funds provided to NYCHA through the New York City Office of Management and Budget.



- **FEMA 406 Program** – program that addressed the recovery and mitigation of facilities that were damaged by Sandy.
- **FEMA 428 Program** – a pilot program authorized following Sandy to increase flexibility in the administration in assistance and incentivize timely and cost-effective completion of projects.
- **HUD Community Development Block Grant – Disaster Recovery (CDBG-DR)** – a flexible grant program that supports recovery efforts, especially in low-income areas.

SCOPE OF WORK

The nearly \$3 billion in FEMA funding NYCHA secured in 2015 will help repair, restore and strengthen NYCHA developments devastated by Superstorm Sandy. Each development site is eligible for upgrades and resiliency improvements depending on the extent of the damage.

Buildings Restoration	• Roof replacement • Renovate damaged first floor apartments and common areas (walls, floors, doors, exc.) • Install CCTV, layered access systems and stairwell lighting • Crawl space restoration • Replace damaged equipment and supplies
Electrical,	• New boilers, electrical, and mechanical equipment



RECOVERY — TO — RESILIENCY

NYCHA'S SUPERSTORM SANDY RECOVERY PROGRAM

FACT SHEET

Mechanical, & Plumbing Systems	• New buildings/rooms to house • Installation of back-up power generators • Replace underground conduits and exterior lighting • Dry flood proofing, which means making structures water tight below the flood level
Grounds Restoration	• Playground structures and area • Asphalt resurfacing, sidewalks, and fencing • Remove underground fuel oil storage tanks

ACCOUNTABILITY & TRANSPARENCY

With billions in recovery dollars now in place, NYCHA plans to move projects in the most responsible, timely, and cost-effective manner possible. The Authority is committed to the highest level of accountability and transparency to ensure proper oversight of the largest recovery and construction program in NYCHA history.

Public	NYCHA launched a Sandy Recovery webpage in October 2015 to serve as an information hub and track progress. The site includes development specific details an interactive map , which allows the public to view individual projects, contractor information and funding levels.
Residents	The NYCHA Office for Disaster Recovery's community outreach team consisting of 24 members is responsible for keeping NYCHA residents and other community members regularly informed on recovery activities and project schedules. The community outreach team, which includes 13 residents hires under the Section 3 program, speaking a variety of languages including <i>Spanish, Mandarin, Cantonese and Russian</i>. The team has a weekly call with every Sandy affected Tenant Association president to communicate updates and address concerns. Since April 2014, NYCHA has organized, attended, or participated in more than 1564 meetings through February: • 329 Tenant Association meetings and 319 resident engagement events • 181 Resident home visits and 212 construction update meetings, 4 Groundbreaking events • 81 visits with elected officials and 111 community board meetings • Over 115,265 flyers have been distributed
External	In June 2015, NYCHA signed an agreement (Memorandum of Understanding) with the City of New York's Department of Investigations for independent auditors to monitor contracts for Sandy-related repairs and restoration.
State	FEMA funding will flow through the New York State Division of Homeland Security and Emergency Services (DHSES) , which will review and approve disbursements to NYCHA. Funding will be tied to project status, consistency with the project scope approved by FEMA, percent of work completed, expenditure documentation, and the certification of completion. DHSES is subject to the New York State Office of the Inspector General .
City	The New York City Office of Management and Budget (OMB) reviews and approves the scope of work eligible for Community Development Block Grant-Disaster Recovery (CDBG-DR) funding and related invoices. CDBG-DR contracts are subject to OMB review and registration through the office of the New York City Comptroller .
Federal	FEMA reviews the scope of work to ensure consistent with committed funding. All work related to the FEMA funding is subject to a Department of Homeland Security Office of the Inspector General for audit . Community Development Block Grant-Disaster Recovery (CDBG-DR) funding is subject to oversight by HUD and HUD Office of the Inspector General .



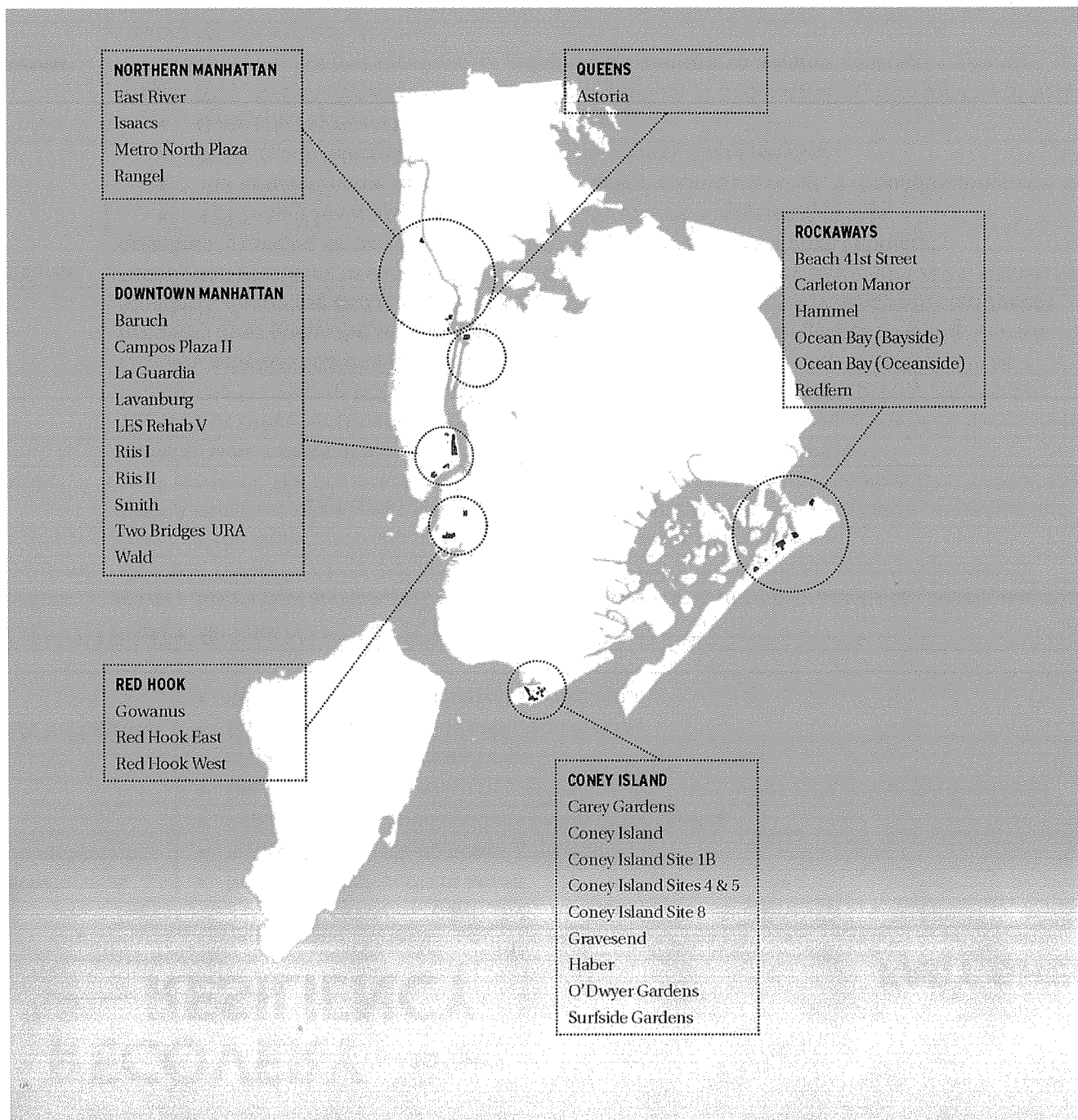
RECOVERY—TO— RESILIENCY

NYCHA'S SUPERSTORM SANDY RECOVERY PROGRAM

FACT SHEET

DEVELOPMENTS SUSTAINING DAMAGES FROM SANDY

(Note: some developments sustained lesser damage than others; FEMA 428 funding will support recovery efforts at the most damaged developments, while other recovery funds will support restoration at other sites with less significant damages.)



The Gaia Institute

February 28, 2017

Honorable Mark Treyger, Chair
Committees on Recovery and Resiliency & Public Housing
City Hall
New York, NY 10007

Dear Chair Treyger and Recovery and Resiliency & Public Housing Committee Members

**RE: Oversight - Sandy Recovery and Resiliency Projects
in NYCHA Developments.**

**Scale of Opportunities: About 1/10th of New York City Lands are Home to Citizens in
NYCHA Facilities**

Some ten percent of this 300 square mile City of NYC consists of lawns around NYCHA facilities, requiring maintenance at a cost of thousands of dollars per acre per year, providing benefits of infiltrating some rainfall, but beyond this, with relatively little return on investment.

Hurricane Sandy caused tens of billions of dollars in damage largely to about 1/5th of the City which is fill over intertidal marsh, known as zone A. Some have recommended abandoning this real estate, but while there is no way of diminishing sea level rise, short of lowering the CO₂ in the atmosphere, there are opportunities to literally elevate and enrich our coastal land scapes.

The City produces 19,500 tons per day of waste concrete, brick, and glass. This is enough material to raise about 4 square miles of NYC, roughly 1%, by one foot each year, or all of zone A, or, alternatively, the NYCHA properties, which are about the same scale, in about two decades.

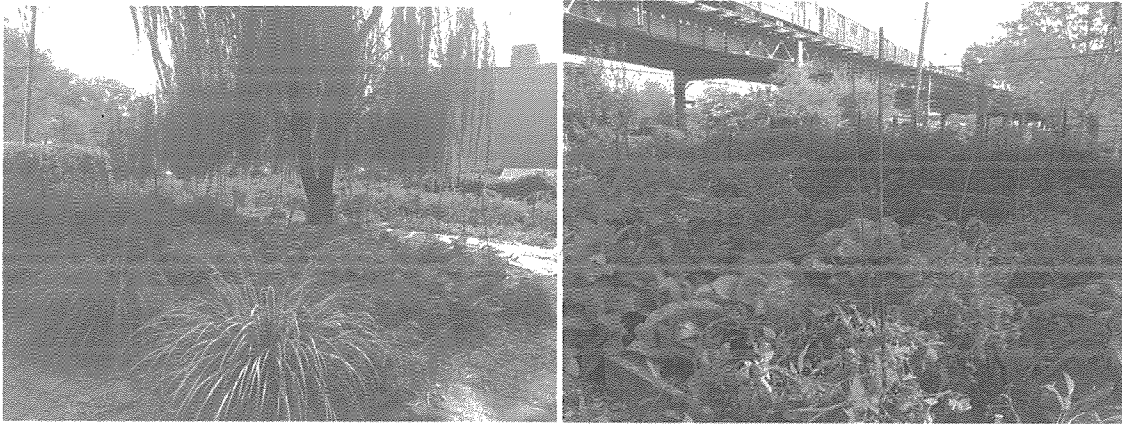
A Unique Opportunity. Every old industrial city has legacy pollutants, with lead amongst the most invidious. Sadly, this neurotoxin is distributed where our children are set down to play, - deposited right on the ground itself. This City has at hand, however, a unique alternative to contact with pollutants from past industrial era and products of leaded gasoline.

The Mayors Office of Remediation has created the Clean Soil Bank, about 100,000 tons of pristine soil parent materials, - sands, silts and clays, made available from constructions sites under the ever the rising skyline of the City. These materials have been in place, literally, since before the mastodons disappeared from the edge of the glacier that deposited sands of Queens, Brooklyn, and Staten Island shorelines.

The work of the Gaia Institute couples ecological engineering and restoration with the integration of human communities in natural systems. While much environmental engineering has the worthy aim of minimizing harm, the Gaia Institute explores, through research and development, design and construction, how human activities and waste products can be treated to increase ecological productivity, biodiversity, environmental quality, and economic well being.



Soils made from pristine parent materials, put to use creating freshwater and intertidal wetlands.



Pristine soil parent materials of sand, silt and clay were mixed with compost produced by the Gowanus Canal Conservancy or purchased by Green Thumb: cabbage, basil, eggplant, kale, onions, peppers, and tomatoes were planted at East New York Farms.

There is a famous study comparing the greater health of Finnish farm children raised right across the border from Russians raised without their hands 'in the dirt', so to speak. I expect that the Finish soils are no cleaner than these.

Native plantings of meadow and bayberry could be used to multiply the stormwater capture capacity of NYCHA landscapes, while also dropping summer temperatures below ambient, and providing, at the same time, habitat and forage for a hundred species of migrating birds.

NYCHA may present the largest opportunity anywhere for restoring urban landscape by enhancing the health and wellbeing of its inhabitants, most especially, children.

Handwritten signature of Paul S. Mankiewicz.

Paul S. Mankiewicz. Ph.D.
Director

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. NO Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: DANIEL TORRES

Address: 2950 West 31 Street

I represent: CARMEN TORRES 2950 West 31 St Apt 1

Address: 2950 West 31 Street

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: CLAUDIA Coger

Address: 3-20-21st Ave 5C LIC, NY 11102

I represent: ASTORIA RESIDENTS ASSOC

Address: 4-20-ASTORIA BLVD

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: LAVON CHAMBERS

Address: 302 CONVENT AVE #57 NY NY 10031

I represent: GREATER NEW YORK LEET

Address: 266 W 37th STREET NY NY 10018

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: 2/28/17

(PLEASE PRINT)

Name: Charlene Nimmmons

Address: 272 Wyckoff St

I represent: Public Housing Communities

Address: 272 Wyckoff St

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

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☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: Jasmine Coppin

Address: 162 Navy Walk #6C Bklyn, N.Y. 11201

I represent: Section 3 Business Concern

Address: 162 Navy Walk #6C Bklyn, N.Y. 11201

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: 2-28-17

(PLEASE PRINT)

Name: Lauretta Brumfield

Address: 3020 Surf Ave 8F

I represent: Coney Island Houses

Address: 3030 Surf Avenue

Please complete this card and return to the Sergeant-at-Arms

MU-1
leave at
2:45

THE COUNCIL THE CITY OF NEW YORK

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: Wanda Feliciano

Address: 2007 Surf Ave

I represent: Unity Towers

Address: Same

THE COUNCIL THE CITY OF NEW YORK

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☒ in favor ☐ in opposition

Date: 2/28/2017

(PLEASE PRINT)

Name: Inez Robinson-Turpin

Address: 612 EAST 14th ST - 13B

I represent: Campus Plaza House II

Address: 612 E 14th ST, APT. 13 10009

THE COUNCIL THE CITY OF NEW YORK

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: Deborah

Address: 3144 Bayview Ave apt 6d

I represent: Councilman Mark Teger

Address: Gravesend Houses

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: 2/28/2017

Name: Robert White (PLEASE PRINT)

Address: 829 Hicks St

I represent: RED Hook East & Community

Address: 250 BWAY Outreach

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: 2/28/17

Name: Kathalinta Singleton (PLEASE PRINT)

Address: Astoria Houses

I represent: Sandy Recovery

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☒ in favor ☐ in opposition

Date: _____

Name: Paul Mankiewicz (PLEASE PRINT)

Address: 99 Bay St

I represent: Cain Institute NYC Soil & Water Dept

Address: _____

Must leave
at 2:45

THE COUNCIL THE CITY OF NEW YORK

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: Shirley Aikens

Address: 2946 West 23rd Street

I represent: Sandy Recovery & Resiliency

Address: Carey Gardens

THE COUNCIL THE CITY OF NEW YORK

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: EDWARD Tyre

Address: 244 Bond Street Basement

I represent: GOWANUS Resident Association Inc.

Address: _____

THE COUNCIL THE CITY OF NEW YORK

Appearance Card

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☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: LINDA HARRISON

Address: 3051 W. 25th St #13C BKLYN

I represent: HABER HOUSES

Address: SAME

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: Karen Blondel

Address: 5 Fifth Ave Committee

I represent: T3 GOWANUS, Red Hook,

Address: 621 Degraw St

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: MICHAEL O'Connell

Address: 250 Broadway

I represent: NYCHA Community Outreach

Address: 250 Broadway

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: 2/28/17

(PLEASE PRINT)

Name: Alina Kong

Address: _____

I represent: Faichan La Guardia Addition TA

Address: 280 Cherry St New York NY

Please complete this card and return to the Sergeant-at-Arms

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: Joy Sinderbrand

Address: _____

I represent: NYC

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: Deborah Goodard

Address: _____

I represent: NYC

Address: _____

**THE COUNCIL
THE CITY OF NEW YORK**

Appearance Card

I intend to appear and speak on Int. No. _____ Res. No. _____

☐ in favor ☐ in opposition

Date: _____

(PLEASE PRINT)

Name: Sheila Smalls

Address: 2953 W 33rd St

I represent: Oldwyer Gardens

Address: 2940 W 33rd Street

Please complete this card and return to the Sergeant-at-Arms